

INTEGRATED ENERGY POLICY REPORT
2004 UPDATE COMMITTEE'S 4TH WORKSHOP
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)	
)	
Informational Proceeding and)	Docket No.
Preparation of the 2004 Integrated,)	03-I3P-01
Energy Policy Report Update)	
(2004 Energy Report Update))	
)	

CALIFORNIA ENERGY COMMISSION

1001 I STREET

CENTRAL VALLEY ROOM

SACRAMENTO, CALIFORNIA

THURSDAY, AUGUST 26, 2004

9:00 A.M.

Reported by:
Peter Petty
Contract No. 150-04-002

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John Geesman, Presiding Member

James Boyd, Associate Member

ADVISORS PRESENT

Melissa Jones

Chris Tooker

Darcie Houck

STAFF

Sandra Fromm, Assistant Program Manager

Matt Trask

Robert Weisenmuller, Consultant

Rick York

Eileen Allen

ALSO PRESENT

Gregory Blue
Dynegy

Tim Heming
NRG Energy, Inc.

Vitaly Lee
AES Pacific, Inc.

Trent Carlson, Director, Asset Commercialization
Reliant Energy

Steven Goschke, P.E., M.E.
Duke Energy

ALSO PRESENT

Les Guliassi, Director
Pacific Gas and Electric

Barry R. Flynn, P.E.
Flynn RCI

Mary Jo Thomas
CAISO

Roy Craft, General Manager
Reliant Energy

Robert Lawhn, Director
Reliant Energy

Mark Osterholt, Direct, Business Operations
Mirant

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P R O C E E D I N G S

9:00 a.m.

MS. FROMM: Good morning. I'm Sandra Fromm, the Assistant Program Manager for the 2004 Integrated Policy Report Update. I'd like to welcome you here today and thank you for your participation.

Today's workshop will be on aging power plants. This is one topic in a topic of three elements that will be included in the 2004 Update. This update also includes renewables and transmission.

A draft committee summary document will be due out September 15. We will hold hearings around the state on all three topics during the end of September and early October. We will release the final committee document on October 20, and it will be heard before the full Commission for consideration on November 3. After that, we will transmit the document to the governor.

You can participate in today's proceedings by e-mailing us. The e-mail is ieprehearing, and that is one word, @energy.state.ca.us. If you are here today and you wanted to talk, please fill out a blue card or

1 hand me or Matthew Trask your business card, and
2 we can provide to the court reporter.

3 We also have a comment sheet at the back
4 of the room. If you don't want to come up and
5 speak at the podium, you can fill out some
6 comments at the back of the room at the end.

7 We welcome your written comments and
8 would appreciate receiving those by September 7.
9 The presentations made by staff today will be
10 posted on the web. Paper copies of staff's
11 presentations are available along with today's
12 agenda and copies of the draft, Aging Power Plant
13 Study, on the table at the back of the room.

14 When speaking today, if you could speak
15 directly into the microphone and either spell your
16 name and provide the court reporter with your
17 business card if you have one.

18 There may be a fire drill at some point.
19 If so, please exit the building and meet over at
20 the park, and they will let us know when we can
21 come back into the building.

22 If we are here during lunch, there is a
23 snack shop downstairs on the first floor. There
24 are also cafes in the park and along J Street.
25 The restrooms are out the doorway, the hearing

1 room doorway, to your left.

2 Again, I would like to thank you for
3 participating today. With that, I would like to
4 turn the workshop over to the committee.

5 PRESIDING MEMBER GEESMAN: Thank you,
6 Sandra. Let me apologize for the formality of
7 this particular space. At the same time, thanks
8 Secretary Tamminon and the ARP for making this
9 space available to us.

10 We thought it would be a good idea to
11 utilize a venue that would facilitate greater
12 access over the internet to this particular
13 hearing. We have received written comments from a
14 number of parties. I wanted to ask Sandra are
15 those accessible through our internet site, or is
16 there some record as to who has actually submitted
17 written comments. I know they have been docketed.

18 MR. TRASK: We will get them on to the
19 internet site.

20 PRESIDING MEMBER GEESMAN: I think that
21 would be helpful. We've got a full schedule
22 planned, so I don't really intend to make any
23 introductory comments. I think that this is a
24 pretty well-informed audience that has followed
25 our process since we initiated it last fall, and I

1 look forward to the presentations and discussion
2 over the course of the day.

3 Commissioner Boyd?

4 COMMISSIONER BOYD: Thank you, John. I
5 don't think I want to take any more time to add
6 anything, so I think we should just get underway.
7 I'd just like to welcome all of our advisors. We
8 have a full slate here today, both of yours and
9 Darcie Houck and Mike Smith, my advisor, with us.

10 This process and procedure has generated
11 a lot of interest and a lot of paper, so we are
12 all anxious to hear about the future in this
13 issue. So, thank you.

14 PRESIDING MEMBER GEESMAN: Matt, do you
15 want to start?

16 MR. TRASK: Yeah. Good morning. I'm
17 Matt Trask. I'm the Project Manager for what
18 we've called the Aging Power Plant Study. We gave
19 it a considerably longer name when we turned it
20 into a white paper.

21 I just wanted to talk a little bit first
22 about the purpose of today's workshop. We are
23 here primarily to hear from you, to take comments
24 on the study, and to see if we got it right. We
25 have sort of three general requests from you up

1 there, are our conclusions accurate and
2 appropriate. Did we accurately capture your
3 input, and are there other factors to consider.

4 As Sandra said, the draft, white paper,
5 and your comments today will both become part of
6 the record that the committee will consider when
7 preparing their own report.

8 I'm going to start off with just a short
9 presentation on the study. Like Commissioner
10 Geesman said, those that have been following the
11 proceeding are fairly familiar with what is in it,
12 and we have given several presentations before.
13 Today I am going to more or less the highlights.

14 Following the presentation, we are going
15 to have a period where we can have other
16 presentations or general comments and then
17 following that, we are going to have more focused
18 discussions, and we will take specific comments
19 then. We are going to go essentially chapter by
20 chapter through the APS, the Aging Plant Study.
21 We are going to be following along the set of
22 questions that were included in the agenda up
23 front there. If later on you haven't got a copy
24 of that agenda, you may want to grab that, and we
25 will be using those questions to focus our

1 discussion.

2 It's been a long and interesting study.
3 We started off with selecting a group of power
4 plants that we thought was representative of what
5 we are calling the Aging Power Plant Sector. Out
6 of the approximately 1,500 generating units in
7 California, we selected 66 of them. It is
8 totaling about 17,000 MW, which is about 25
9 percent of the total generation. As you can see,
10 these are fairly large plants.

11 The red dots are where they are located
12 up there. You can see we have one way up north,
13 Humboldt County near Eureka. We have four in the
14 Bay Area, two in the Central Coast, and then 15 in
15 Southern California.

16 The study starts off with something we
17 think is rather important is some definitions of
18 terms that sort of get thrown around. We found
19 that there really wasn't any sort of solid
20 definitions of some of these terms. Local
21 reliability is probably one of them. It is kind
22 of sort of a chicken and egg thing.

23 The ISO in their studies they conclude
24 that there are nine local reliability areas in
25 California. These are areas generally defined by

1 their criteria, reliability criteria. The ISO and
2 the utilities do studies where they simulate the
3 electric grid, and then they will cause things to
4 fail. A generator will go out, a breaker will
5 fail.

6 In general, we are defining local
7 reliability areas as any place where the failure
8 of two components, a generator and a breaker, or
9 something like that would create outages or at
10 least compromise power quality.

11 Beyond that, we discussed quite a bit
12 "Regional Reliability". In California we have
13 three general regions, which are more or less
14 defined by our transmission system. I apologize
15 that you can't see this very well. We are sort of
16 limited in the transmission maps that we can use
17 in a public forum because of security reasons.

18 In general, we have three very large
19 regions. We have Northern California up here,
20 which is north of Path 15. Path 15 is this
21 transmission line right in through here. It
22 belongs to PG & E and is the major route for
23 getting power from the north to the south or vice
24 versa.

25 Because of its limitations, it is kind

1 of a bottle neck, and that is what creates these
2 three regions. We have the Northern Region, which
3 is north of Path 15, Southern Region south of Path
4 15, and then we have a much smaller region which
5 is right along Path 15.

6 We refer quite a bit to regional
7 reliability because there is a very limited amount
8 of power that can be transferred from one region
9 to another, so the power plants that are in those
10 regions become very important for maintaining
11 reliability.

12 We also talk quite a bit in the study
13 about some sub-regions, primarily we are talking
14 about the Los Angeles area, the greater Los
15 Angeles area, and a few other areas like the San
16 Francisco Bay Region. Now, we looked at these as
17 kind of a special case, especially in Los Angeles.

18 As you notice, there are several major
19 transmission lines that are coming in to the LA
20 area, and at any one time, you could have
21 congestion on any one of these lines. You can
22 have congestion on all of the lines. What the
23 control area operators in that region do is they
24 are constantly balancing load with generation, and
25 they are also constantly balancing these

1 transmission lines by using the end region
2 generation, which here are denoted by the yellow
3 dots. Those are all the aging power plants in the
4 Los Angeles Basin.

5 When transmission lines start to get
6 congested in that area, the control area operators
7 will generally instruct the plants in the region
8 to start adjusting voltage levels, adjusting power
9 levels to help alleviate the congestion on the
10 transmission lines.

11 Let's get into a little bit just a brief
12 summary of the report. We started out with
13 describing the role of the aging power plants. We
14 first looked at the 66 units. Then after some
15 discussions with the owners of the units, we
16 determined that 50 units were more appropriate for
17 looking at reliability problems and so forth. The
18 other 16 are owned mostly by municipal utilities
19 or PG & E. We concluded that they will not retire
20 during the study period, which is 2004 through
21 2008. So, we focused mainly on these 50 units,
22 which are owned by private companies.

23 We came up with five things that they
24 mainly do. They provide reliability services in
25 select areas through the California ISO's RMR

1 process. Again, perhaps the easiest way to see
2 where one of these is needed is way up north in
3 Eureka. We have the Humboldt plant right up there
4 in Eureka. There is really only one major
5 transmission that comes out from the I-5 corridor
6 out to that area. There are some smaller
7 transmission lines that distribute down south, but
8 really only one line out to that population
9 center. That power plant out there becomes very
10 important for maintaining voltage and frequency in
11 that area, and therefore is designated as a RMR
12 Reliability Must Run plant.

13 Some of the other services that they
14 provide is regional reliability by acting as a
15 margin of reserve for use during supply
16 emergencies. We see this generally in the summer,
17 hot months, but not always. We had an anomaly
18 this year in late March where we had a heat spike
19 and then a lot of power plants were off line.
20 Some of these aging plants were crucial in
21 maintaining regional reliability during that
22 shortage.

23 Those that are owned by municipal
24 utilities are operated a little bit different.
25 They generally provide base load as well as other

1 services and are usually very near the load
2 centers, so they are quite cost effective for
3 those municipal owners.

4 They are very important, like I said for
5 meeting incremental demand during the hot summer
6 days and any other time when we have a generation
7 shortage. As I briefly discussed earlier, they
8 are also used to alleviate transmission system
9 congestion by offsetting inter-tie overloading at
10 or near the load.

11 After we talked about the role of the
12 power plants, we then went into our reliability
13 analysis. This analysis was two-fold. We looked
14 at the effect of retirements of plants on the
15 transmission grid, but then conversely, we also
16 wanted to make sure that if we continued to rely
17 on these units, that they were reliable themselves
18 and would be there when we need them.

19 The first thing we did was to rank these
20 plants by retirement risk, either high, medium or
21 low. This is an important factor. We did this
22 ranking only relative to the study group. It
23 really is mostly for us to try to start our
24 analysis of the effects of these retirements. We
25 wanted to examine a wide range of possible

1 retirements, so we just came up with this scenario
2 more or less of what we thought might be the
3 likely future for these plants. Mostly it is
4 based on fairly simplistic criteria. That is
5 whether or not they have a contract.

6 If a unit has a contract, either an RMR
7 contract or a contract associated with the
8 Department of Water Resources contracts, and it is
9 through the entire study period, we assume that
10 those were low risk of retirement.

11 If they have a contract, but they might
12 lose them during this study period, say if it is
13 an RMR plant or another plant is built that might
14 assume that service or transmission line is built,
15 then that RMR is not longer needed, that plant
16 could lose that RMR contract. So, if that happens
17 during the study period or if we think it might
18 happen, then we assign that as a medium risk.

19 Those that have no contracts at all at
20 the present and really no prospect given the
21 present market design of getting a contract, we
22 consider those at high risk. These are described
23 in Table 3.1 and 3.2 on page 41 of the Aging
24 Plants Study.

25 There are some other factors that we

1 used to sort of edge the rankings one way or
2 another. For instance, the South Bay Plant is the
3 subject of an agreement with the Port of San
4 Diego. It is rather a complex agreement, but
5 there is some possibility that this plant would be
6 shut down. The South Bay Plant would be shut down
7 within the study period. Although, it would be
8 likely that if it was shut down, it would be
9 replaced by a new plant nearby or in the same
10 region.

11 Once we determined which plants were at
12 high, low, or medium risk of retirement, we then
13 conducted powerful analysis in taking out these
14 first five high-risk plants, and then the medium-
15 risk plants in combination, and looked at the
16 effects on the transmission system.

17 What we found was that indeed the
18 retirement of just about any one of these units
19 can create some problems, some local overloading,
20 and things like that. In general, those kinds of
21 problems can be fixed with relatively easy and
22 cheap transmission upgrades, but not always.

23 We also looked at the model, the role of
24 these aging plants on alleviating transmission system
25 congestion, and in that we looked at Southern

1 California in the Los Angeles area and in the San
2 Diego area, and also up in the Bay Area.

3 We determined that the retirement of the
4 plants could have an effect on the ability to
5 import power into the Los Angeles area, but
6 probably not have an effect on the import limits
7 in San Diego or the Bay Area.

8 As I mentioned earlier, we also studied
9 other projects coming on line, power plants,
10 transmission line upgrades, that could effect the
11 RMR status of certain plants.

12 We also coordinated with the California
13 ISO and the utilities on their study of
14 reliability effects of retirements. This is a
15 yearly thing that the ISO and the transmission
16 owners do. It is called an "annual grid
17 assessment". PG & E, SDG & E, Southern California
18 Edison are at this moment completing their
19 sensitivity studies on their parts of the
20 transmission grid for the next year. They also
21 look out as far as ten years just to try to
22 predict what will be coming down the line. They
23 identify reliability criteria violations. I
24 briefly mentioned this earlier. That is again
25 what would happen if things started to go wrong,

1 if we lose a generator, if we lost a circuit
2 breaker, things like that. What would happen to
3 the transmission system. They identify any
4 transmission fixes that could come out of this,
5 and then also they identify how you would test to
6 make sure that the system would work.

7 What is different this year, is that the
8 grid assessments are focusing on the retirements
9 of these aging plants. At first, I thought it was
10 quite good validation that the utilities and the
11 ISO had chosen the exact 50 units that we did for
12 studying reliability effects of retirements. As
13 it turns out, that is not too unreasonable since
14 they are the oldest and largest plants. It was a
15 very obvious assumption.

16 Like I said, they are looking at the
17 exact same 50 units that we are. They are
18 modeling the exact -- doing the same thing that we
19 did, only they are taking it to a much further and
20 deeper level. That is why I encourage everybody
21 here to at least visit the ISO's website. I've
22 got the web address up there, and for those of you
23 listening in on the web, this will be posted on
24 our website hopefully any minute now. Anyway, the
25 Energy Commission is involved in that study, it

1 should be out this fall sometime, and it should
2 provide quite a bit of additional information
3 about the effects of retirements.

4 We also looked at the reliability of the
5 units themselves. It turned out to be a pretty
6 interesting investigation. We tried to gather
7 data on forced outage rates. There are some
8 agencies that collect this data, primarily the
9 North American Electric Reliability Council,
10 however, it is not mandatory, and so the data
11 submission is somewhat uneven. It is difficult to
12 compare from region to region, so we didn't get a
13 lot of information out of that source.

14 One place we did find quite a bit of
15 useful information is in the Continuous Emissions
16 Monitoring System Data Base that the US EPA keeps.
17 This is a very massive data base that has power
18 levels and emission levels of 62 of the units out
19 of 66 that we are studying. It provided quite a
20 bit of good information.

21 We were able to determine that when
22 these plants are needed during those hot hot
23 summer months, they are generally available and
24 they generally have about the same forced outage
25 rates and new plants.

1 We also determined through the studying
2 of this data but also talking with the generator
3 owners, including the municipal plant owners, that
4 it is pretty widely accepted that your forced
5 outage rate is going to be inversely proportional
6 to the maintenance spending that you do on these
7 units. The more maintenance you do, the lower
8 forced outage rate you have.

9 The data also suggests that the life of
10 these plants can be extended almost indefinitely
11 with the proper maintenance program. They are
12 fairly comparatively simple to some of the new
13 plants, not a lot of things to break down. So, if
14 you do your maintenance, they can last a long long
15 time.

16 After that, we looked at the future of
17 the aging power plant operations. We do see that
18 the investor-owned utilities are likely to need at
19 least an additional 5,000 MW of capacity in the
20 summer of 2005 and another 5,000 MW by the end of
21 2009. This capacity primarily will be peaking and
22 load-following, not base load. There is plenty of
23 base load already out there.

24 We don't see much of a near term energy
25 need for those utilities until we get into 2007 or

1 so. I should say outside of the summer. Once we
2 get to 2007, there will needs for some energy in
3 other seasons.

4 The ability of these aging plants to
5 participate in the future markets and to fulfill
6 some of this capacity energy need is going to be
7 largely dependent on the future market design
8 resource adequacy procurement, and so forth,
9 primarily the subject of proceedings at the
10 California Public Utility Commission.

11 Following looking at the future, we
12 started to think about well, if they do retire,
13 what would rise to replace them. In general, we
14 assume it would probably be a mix of several
15 things. I've got them up there on the screen. It
16 is going to be a mix of demand-side management
17 (efficiency and conservation) as well as demand
18 response, which are programs to reduce the peak,
19 the needle peaks, in the very hot summer days, as
20 well as renewable energy development, increase
21 generation, existing power plants, new power
22 plants, and transmission upgrades, and new lines.

23 The exact mix of those replacements is
24 likely to be very different depending on which
25 unit retires. For instance, some areas have

1 already done quite a bit of demand-side
2 management, and there may not be much potential
3 for more. Other areas, there is a great deal of
4 potential for increased demand-side management.

5 We did determine that in short term, for
6 instance if a unit was to retire this fall
7 unexpectedly, that most likely the replacement for
8 that generation would be from existing plants,
9 followed later by the newly constructed plants.

10 If you look at the generation that is
11 available right now to replace these plants, as
12 well as the new plants coming on line, there is a
13 possibility to either increase or decrease fuel
14 use and environmental impact from the present
15 situation, depending on the mix of technology that
16 rises to replace these generators.

17 For instance, we think some of the
18 generators if they were to retire, the most likely
19 replacement would be existing peaking plants.
20 These peaking plants definitely have higher
21 emissions and lower efficiencies than the boiler
22 units. It is really dependent on the mix of
23 technologies that are employed to replace these
24 units as to what the result and effect on fuel use
25 and emissions would be.

1 In our environmental chapter, Chapter 6,
2 we looked quite a bit at air emissions as well as
3 biology. What we determined with air emissions is
4 that these plants are very well controlled
5 already. I think all but 20 of them do have the
6 best available retrofit control technology
7 installed, which is selective catalytic reduction,
8 SCR. Those other 20, some of them will be
9 installing SCR over the next few years. Others
10 comply with Air District criteria through other
11 means, either operating caps. Some have done other
12 sorts of emissions upgrades, low NOX burners, and
13 things like that.

14 We determined that in the way these
15 plants operate -- I should back up a little bit.
16 What we determined was that these plants have
17 emission raters per term of gas burned,
18 essentially identical to new combined-cycle
19 plants. However, they are 10 to 15 percent less
20 efficient than these new plants. Their emission
21 rates per MW hour are about 10 to 15 percent
22 higher than new plants.

23 This was an interesting phenomenon that
24 came out of our study. If you looked at the name
25 plate data on these units, the aging units

1 compared to a new combined-cycle unit, you would
2 think they are considerably less efficient, 30 to
3 40 percent less efficient. When you look at the
4 way that they operate in load-following mode and
5 starting out at low power levels in the morning
6 and increasing through the afternoon and then
7 tapering off in the evenings, combined-cycle
8 plants don't do well at low power levels, so they
9 have higher emission rates at that level. They
10 have worse efficiency. As opposed to the aging
11 units which are generally linear. They have the
12 same emission rates no matter what power level you
13 are at.

14 When you look at that combined or
15 aggregate fuel use and emissions, it is really
16 only about 10 to 15 percent different than new
17 plants.

18 As far as the way they fit into the mix,
19 in 2003 the aging plants produced 28 percent of
20 the electricity in the state, but only 15 percent
21 of the generating sector NOX emissions. That
22 means that there's quite a few power plants out
23 there that have considerably worse emissions than
24 these aging units.

25 Next we looked at the impacts and the

1 expected effect on retirements from regulations
2 governing once-through cooling facilities. These
3 are generally facilities that use sea water or bay
4 water to cool the plants. Eighty percent of the
5 aging units under study used these systems,
6 obviously the ones on the coast and in the Bay
7 Area.

8 There are new Clean Water Act
9 regulations that the Environmental Protection
10 Agency just put out. They put out the first one in
11 February, and I believe they were adopted in April
12 or May. We don't believe that these new
13 regulations are going to effect aging plant
14 operations during the study period. There is
15 quite a bit of leeway in how plants can comply
16 with the rules, and then there is also quite a bit
17 of leeway on when the process would start. They
18 are generally associated with the expiration of
19 NPDS, permanence governing the water quality of
20 the sea water that they use.

21 It looks like things won't really start
22 kicking in until 2009, 2010 area. After that,
23 staff has determined that there is a pretty large
24 information gap about what could occur as a result
25 of these new regulations, especially concerning

1 cumulative impacts. Actually, one of the things
2 we did recommend out of this study was to follow
3 up on this area and see what could be done to
4 improve the science and the knowledge of this
5 area.

6 That's it in a nut shell. Like I said,
7 hitting the high points. What is next, as Sandra
8 briefly mentioned, was the Committee will be
9 putting out its own report in mid September.
10 Staff will be conducting additional analysis and
11 gathering some data, especially on regional supply
12 and demand, balance, and congestion relief.

13 We had actually hoped to do a little bit
14 of a presentation, breaking down the reserve
15 margins in the regions, the three regions I
16 discussed earlier north and south of Path 15 and
17 along Path 15. We just weren't quite confident to
18 put out our numbers today. What we are planning
19 to do is to put this up on the web, our break down
20 of supply and demand in the different regions and
21 then try to asses the reserve margins that are
22 available in those regions.

23 We will put that up on our website and
24 seek your comments on those. We will see if we
25 got our assumptions right. There will be hearings

1 in late September and early October on the
2 Committee's initial draft. As Sandra mentioned,
3 the final report in late October.

4 That is it for my presentation. Short
5 and simple. If people have questions in general
6 about the study, we can probably answer those now,
7 but we had planned at this point to have some
8 presentations and general comments from parties on
9 this study. So, unless there is some questions
10 right now, I thought we would go ahead into the
11 presentations by other parties.

12 Greg.

13 PRESIDING MEMBER GEESMAN: Greg, I think
14 you need to make certain that the green light is
15 on, on that microphone.

16 MR. BLUE: Hello. It sounds on. Can
17 ya'll see the presentation, the screens in front
18 of you? Great. My name is Greg Blue. I work for
19 Dynegy.

20 I am talking today on behalf of West
21 Coast Power. West Coast Power is the entity that
22 owns our power plants in California. The 50/50
23 joint venture between Dynegy and NRG Energy. Also
24 with me today presenting the environmental piece
25 of our comment is Tim Hemig, Director of

1 Environmental Affairs for NRG Energy. Thank you.

2 In general I would say that what I am
3 going to talk about today is I am going just share
4 with the Committee here some of what we consider
5 highlights out of the report, also some oversights
6 that we see that are not in the report. Then I am
7 going to go chapter by chapter with some just
8 general observations and comments.

9 We have filed written comments. I just
10 wanted the committee to know that we take this
11 very seriously, this Aging Power Plant Report.
12 This is our written comments with our presentation
13 attached. We spent a lot of time effort in this.
14 We think this is a very important study, and I
15 want to commend the committee and the Commission
16 for engaging in this staff.

17 I think before I start, I saw this
18 letter yesterday for the first time from
19 Commissioner Peevey. He wrote to the governor
20 this Monday. There is a paragraph in there I
21 think where my point is I think the PUC recognizes
22 this is an issue. I know the ISO has recognized
23 this is a big issue, but just for the people in
24 the audience and who are listening, I will read
25 one short paragraph, "Further, to meet the near

1 term energy needs of California, the Commission is
2 working closely with the Independent System
3 Operator and the investor-owned utilities to
4 insure that existing power plants are kept
5 operational until they can be replaced with newer,
6 cleaner, and more efficient plants. While these
7 aging power plants need to be replaced, in the
8 near term they are an essential part of
9 California's electricity infra structure,
10 especially in a few key areas of the state."

11 We endorse that comment and agree with
12 that comment. We believe that some of these
13 plants will have to be replaced in the future.
14 That is one of the things I am going to talk about
15 in a few minutes.

16 Some of the highlights that I know Matt
17 had talked about, but from our point of view, some
18 of the key highlights that we have seen in this
19 report is that aging power plants continue to play
20 a vital role in reliable delivery to California
21 consumers. That little statement was one little
22 sentence, but it is really key to this whole
23 discussion here. We agree with this.

24 The other important thing that came out
25 of the study validated the comments that we had

1 made in the 2003 Integrated Energy Policy Report
2 regarding what we considered plants that were at
3 higher risk of economic retirement. We had
4 submitted some numbers in that proceeding. We
5 came up with about 10,500. Since then,
6 retirements have happened and so forth.

7 In this report, the staff has come up
8 with a number of 8,543 MW that are higher risk for
9 economic retirement. The numbers are a little bit
10 off, but basically I think the general assumption
11 is it validates some of the things we were saying.

12 The other thing I think is important is
13 the locational value of the plants is being
14 recognized in the report. That is really big I
15 think. I will talk a little bit more about that
16 later.

17 Two things, one it provides local
18 reliability service by alleviating the
19 transmission congestion that is occurring right
20 now in SB 15. Another really important point that
21 I don't think has come up until this report was
22 that it provides sub-regional reliability service
23 by allowing the import limitations to be fully
24 utilized. We will talk a little bit about that
25 later.

1 I think the report when they are
2 focusing on the LA Basin makes some pretty
3 interesting conclusions there. The next bullet
4 there, retirements within the LA Basin sub-region,
5 could reduce the capability of importing power
6 into the area.

7 The last is, of course, it is no
8 surprise to us that owns these power plants, that
9 in fact without our RMR, DWR, or other contracts,
10 based on the current market designs, we have
11 limited ability to recover our cost. That is
12 going to be a problem, and really it is a nearer
13 term problem than the report indicates. We will
14 talk about that.

15 Some of the other highlights we found
16 are some of the things that Matt had mentioned,
17 that the operational data shows that in fact the
18 aging generation is closer in efficiency to newer
19 combined-cycle than the name plate data indicates.
20 It is not as bad as some had thought.

21 I think the next two bullets are my
22 David Freeman bullets. He had continually called
23 us dirty old plants, and I'm going to have to find
24 out where he is and mail him a copy of your study.
25 Most of the aging fleet and all of our units have

1 been retro-fitted with SER, and we are in full
2 compliance with the all-air quality standards.

3 The retro-fitted units have emission
4 rates per therm of gas burned, essentially
5 identical to newer combined-cycle plants. In
6 fact, the average emissions of the aging
7 generation is better than the simple cycle-
8 combined turbines.

9 One other highlight, the expected cost
10 of compliance with new regulations on once-through
11 cooling are not likely to drive retirement
12 decisions in this study time period, and Tim is
13 going to talk about some of those issues.

14 Some of the oversight that we saw in
15 this report, I think everybody on the committee
16 have heard me on this one before, but I'm going to
17 keep repeating it. There is no discussion on the
18 value of repowering at the critical existing load
19 pocket sites. While the report talks about new
20 generation being needed and the report talks about
21 additional generation coming from other existing
22 plants, it really does not have enough discussion
23 in our opinion on repowerings. Clearly we think
24 that is an important policy position, and I will
25 talk a little bit more about that.

1 We need additional discussion on land
2 use and socio economics. In fact, one of our
3 recommendations at the end of this is that you
4 have a separate Chapter 7 for that topic. Right
5 now it is a sub-section of Chapter 6, and it is
6 not a separate chapter. We believe that there are
7 a lot of issues there that need to be discussed,
8 and I think you need to be talking to some of the
9 local municipalities where these power plants are
10 located to find out how critical they are to their
11 own local budgets and so forth.

12 There is no discussion on the synergies
13 between these (indiscernible) plants and the
14 existing coastal power plants. There is a brief
15 mention of it under land use. These are out
16 there. We provided some comments on that topic.

17 Last week at the 2005 Scoping Committee
18 Workshop for the '05 IEPR, there was a
19 presentation by Lon House of the California Water
20 Agency which dramatically highlighted the water
21 issues in the West and the fact that in his
22 opinion and he is speaking on behalf of the
23 Association of Water Agencies, that this
24 allination plants are a given and they are coming
25 to California. They are much needed.

1 That issue has to do, of course, with
2 these existing plants that are located on the
3 coast that if the right policies aren't in place,
4 there is a potential that some of these plants
5 could be -- the sites could be lost forever. I
6 know that there are people contacting us on our
7 plants frequently inquiring about long term use of
8 this land right there on the coast.

9 The report that another oversight did
10 not examine what forms of capacity markets and
11 levels of capacity compensation might be required
12 to retain aging generation or attract new
13 generation. It mentions, but does not take any
14 position on what we think is critical having to do
15 with the deliverability standards.

16 Last is that there is a lot of good data
17 in here, really good data. There is not enough
18 policy recommendations in this report, and I am
19 hoping -- maybe I just don't understand it. Maybe
20 the policy recommendations come from the Committee
21 report and that gets added in on top of the staff
22 report. I am just not familiar. Maybe that is
23 how it works. I hope so. We will be giving you
24 some recommendations.

25 When I say policy recommendations, one

1 of the things that I am talking about is for
2 example, supporting your sister agencies in their
3 efforts, supporting or making recommendations to
4 the legislature or the governor on certain issues,
5 writing a letter. It seems to be everybody is
6 writing letters these days. Maybe a letter
7 informing some people or the governor of some of
8 your findings out of this report I think would be
9 very important.

10 Again, I have to say this every time I
11 get up here. Time is of the essence. What we
12 have found out since the beginning of this process
13 is it has become imperative that we maintain our
14 existing generation. We have seen load growth in
15 the West, it has been robust. Not only in
16 California, but Arizona, New Mexico, Nevada, we
17 have seen the record peaks this summer, load has
18 increased about six percent from '03. Of course
19 every time we have a heat wave -- we've been
20 really lucky with cool weather again this year in
21 general. It's going to be hot this weekend, but
22 it is getting cool again next week. Still, no
23 state policy on repowerings.

24 The tradeable capacity markets are still
25 in the discussion stages. The PUC has finally

1 taken off this MDO 2 title. We have quietly
2 buried that title, and now it is MR 2, which is
3 still years away from implementation. The most
4 important point is the owners of these power
5 plants are having to make business decisions now
6 for 2005 and beyond. We are really looking for
7 some guidance on what we are going to be seeing
8 out there from not only the Energy Commission, the
9 governor's office, the PUC, and the other
10 agencies.

11 The next slide is what we did is this
12 shows the magnitude of the problem out there. The
13 staff has identified 8,542 MW that are at higher
14 risk of retirement. All this is, is just for
15 display purposes only, as I say. It is not a
16 prediction of anything at all. It is just showing
17 the magnitude of the problem. If you were to have
18 those MW's off the system this year in the five
19 peak days we've had or is that six peak days, you
20 can see it is not good. This is just to represent
21 the magnitude of the problem that we are talking
22 about and why it is so important to develop
23 policies that maintain some of these existing
24 plants in the short term and in the long term
25 support repowering on some of these plants.

1 Starting on Chapter 2, the role of aging
2 generating units. As the report identified that
3 these aging fleet will be needed to meet the
4 energy needs at peak demands over the next three
5 to five years. Depending on how new plants come
6 on line, it could even be longer.

7 Another important point that came out of
8 this report was that the energy used to alleviate
9 some of the intra-zonal congestion down in SP 15
10 particularly, is coming from the FERC imposed
11 must-offer requirement.

12 The must-offer requirement is a
13 temporary requirement in our opinion and can be
14 revoked by FERC at any time. Our opinion is once
15 resource adequacy requirements are in place, there
16 is a high likelihood that FERC is going to remove
17 that. This was put into place as a temporary stop
18 gap measure, I don't know how many years ago it
19 was, but several years back. So, we think that
20 this -- and when I get to the recommendations at
21 the end, this needs to be acknowledged in the
22 report and what does that mean.

23 The next bullet is we believe that there
24 is a permanent role for existing sites in
25 providing local reliability services. That feeds

1 into my point, and this is what the report brought
2 out, the draft white paper brought out that you
3 need some of these plants in these locations. Not
4 only do you need them in the short run, you need
5 them in the long run too.

6 The solutions in the short run are RMR
7 like contracts, and the long run it has to be
8 repowering at some of these critical locations.

9 Utilities must be required to procure
10 deliverable energy and capacity in or near the
11 load centers. We think that the PUC has
12 recognized this. We think they are moving towards
13 that. They are working with the ISO. Once again,
14 we haven't seen it happen yet. We have seen the
15 utilities resistant, or at least certainly not
16 volunteer and step up and deal with this issue.

17 We are hoping that we get the right
18 results coming from the PUC, however, any
19 recommendations or encouragement from the Energy
20 Commission to the PUC would be appreciated on this
21 topic. I will probably, of course, probably come
22 and talk at the Joint Energy Meetings as well as
23 September 8 I bring some of the same message.

24 PRESIDING MEMBER GEESMAN: Let me say
25 with regard to that, and it applies both to the

1 evolving search for deliverability standard and
2 also approaching this concept of load pockets.
3 Greater clarity will produce a more rapid state
4 government response. I think one of the things
5 the Public Utilities Commission and certainly our
6 commission, and I can't speak for the ISO, are
7 struggling with is the ability to clearly define a
8 standard such as it will be usable in a regulatory
9 forum.

10 I know from an engineering standpoint,
11 if you don't need to be concerned with the
12 empirical requirements or evidentiary requirements
13 of a regulatory forum, it is a little bit easier
14 to move quickly in some of these areas. I think
15 all of the parties need to recognize, both with
16 respect to deliverability and load pockets, while
17 there seems to be a great convergence of opinion
18 as to the desirability of meeting those needs,
19 there is a great deal of difficulty in precisely
20 defining exactly what it is that state policy
21 should be attempting to do. I think that is a
22 burden all of us share. The quicker we are able
23 to resolve it, I think the quicker we will be able
24 to have satisfactory policies in this area.

25 MR. BLUE: I agree, and I'll commit to

1 keep the pressure up on everybody.

2 Going to Chapter 3, some of these points
3 I will kind of reiterate what I said in the
4 highlights, but basically the fact that
5 retirements of older generating units in Southern
6 California will lower the import capability for SB
7 15 demonstrates the need to maintain generation at
8 those sites.

9 I think one of our recommendations is
10 that further study is needed on the impacts of the
11 retirements in San Diego to Edison's reliability
12 because there was a brief mention in there about
13 that there might be some issues associated with
14 retiring the San Diego area plants as it affects
15 the Edison plant. We think that needs to have a
16 little more study on that or a little more
17 clarity.

18 The other thing on the San Diego Gas and
19 Electric, basically what we saw in the report was
20 the one sentence that said even without any
21 retirements in San Diego, that in the study
22 period, they are facing line overloads even
23 without them. So to us, we just think a little
24 more study needs to be done on the San Diego
25 import limits we think to bring a little more

1 clarity as Commissioner Geesman has mentioned.

2 The San Diego Gas and Electric analysis,
3 their reliability analysis, in our opinion, should
4 only be valid for one year, from a year to year
5 time frame because basically they are basing it on
6 RMR's that are going to continue to run. I'm
7 going to talk about the RMR issue and what we feel
8 about that basically on the next slide.

9 RMR, in our opinion, reliability must
10 run contracts do not equal low risk in our
11 opinion. I'll talk about that in a minute. We
12 think plants in the LA Basin that are currently in
13 the chart that is low or medium risk for
14 retirement that did not have RMR contracts should
15 be moved to the high risk category. That is one
16 of the kind of over arching flaws is that the
17 assumption is made that if you have RMR contracts
18 that means you are not likely to retire.

19 That is not necessarily the case for the
20 reasons I talk about here. There are only one
21 year at a time contracts. They do not support
22 significant reinvestment. The capital additions
23 that we are supposed to be compensated for if the
24 contract terminates at the end of its term and
25 doesn't reup, those have been very contested. It

1 is like a full blown rate case with the ISO every
2 year we try to do a RMR to get your RMR rate set,
3 it is a huge investment in time.

4 We think, in our opinion, a RMR
5 contracts is more of a survival strategy than
6 anything else. It is really not a long term
7 strategy for California. I believe if you asked
8 the utilities, they would probably agree with that
9 statement as well.

10 On Chapter 4, The Future of Aging Plant
11 Operations, again resource adequacy requirements
12 and deliverability standards need to be
13 implemented for all those serving entities as soon
14 as possible. Once again, that is probably
15 happening. It is never fast enough for us in our
16 opinion. Even with all the activity that is going
17 on at the PUC, regulatory uncertainty still exists
18 in the market today. Believe it or not,
19 legislative uncertainty also exists in the market
20 today. With all these proposed re-regulation
21 bills and/or energy redesigned bills that come and
22 some go and some don't go, and you know, again, we
23 will probably tackle this issue again in the next
24 legislative session my guess is.

25 In our opinion, the future of the aging

1 power plants is dependent on a capacity market or
2 a bi-lateral capacity contract. We think those
3 are developing, but again, any encouragement in
4 this report would be helpful to the other sister
5 agencies.

6 The issue of debt equivalency, we agree
7 that is a big issue. It is not something that
8 your commission can solve, but acknowledging it as
9 an issue is also something that could be done. I
10 think the utilities would agree on that one as
11 well. We agree that it needs to be resolved.

12 Chapter 5, Alternatives to Aging Boiler
13 Units, again, as I said previously, repowering
14 will be required in our opinion to maintain the
15 desired level of system reliability. Repowerings
16 are the answer to plant retirements. There is
17 discussion of the local reliability areas and the
18 fact that the importance of some of these sites.
19 If some of these sites go away, it is not an easy
20 task to site a new power plant in California, but
21 it would be even harder in some of these local
22 reliability areas in the future.

23 PRESIDING MEMBER GEESMAN: Do you think
24 that's proven to be the case in the Bay Area over
25 the last several years? It seems to me that there

1 have been a handful of plants sited in the Bay
2 Area, which is in a local reliability area.

3 MR. BLUE: I'm really focusing on SP 15,
4 I really wasn't looking at -- focusing in on the
5 Northern California because our plants aren't up
6 there. I would say, yes, you've gotten some
7 through. I was thinking also of going
8 incrementally forward it is going to be more
9 difficult.

10 PRESIDING MEMBER GEESMAN: But you are
11 speaking primarily with regard to SP 15?

12 MR. BLUE: To where you have large
13 population areas.

14 PRESIDING MEMBER GEESMAN: I don't think
15 we've seen the same population of permitted plants
16 in Southern California.

17 MR. BLUE: Upgrades to the transmission
18 system, also that is another solution is when you
19 do get the transmission system upgrades in place,
20 some of these existing units will have -- if other
21 alternatives come out that alleviate the need for
22 RMR or whatever for the use of these plants, the
23 transmission systems will allow existing units to
24 move some of their power to other markets perhaps.

25 A lot of those plants are important for

1 that voltage support and bar support, and not
2 necessarily because of their particular location,
3 as long as they are running, they don't
4 necessarily have to sell to the utility in the
5 service area where they are located.

6 However, the upgrades to the
7 transmission system needed to reduce the need of
8 the aging power plants will take some time.

9 Now I am going to hand over to our
10 environmental person, Tim Hemig, to talk about
11 Chapter 6, and then I will return in a minute.

12 MR. HEMIG: Good morning, my name is Tim
13 Hemig as Greg mentioned. I'm going to be
14 discussing West Coast Power's view of the Chapter
15 6 in the white paper. Also as stated by Greg,
16 West Coast Power believes the white paper does a
17 good job of discussing these environmental issues
18 and how they might affect operations at existing
19 power plants. However, we think there's a couple
20 of areas where it falls short on some key points.

21 We did have specific comments in writing
22 on how to improve in those areas. I'm going to
23 raise a couple of those concerns right now. First
24 of all, the environmental benefits associated with
25 redeveloping or repowering an existing site we

1 don't believe are adequately described in the
2 white paper.

3 Those being that repowering provides
4 greater, of course, efficiencies and natural gas
5 usage, lower emission rates, more efficient use of
6 water resources, and also using existing
7 infrastructure, all of which have environmental
8 benefits.

9 The white paper does discuss these
10 issues, but we think a more balance evaluation
11 should include more than just one comparison. The
12 comparison in the report is just the Mountain View
13 Plant where a smaller couple boilers, 126 MW were
14 replaced by 1,000 MW facility. In that
15 discussion, it shows that emissions actually
16 increased associated with that.

17 There are some other examples out there
18 that we think are good examples of repowering
19 existing sites. The El Segundo Modernization
20 Project being one of those, and if you do a
21 comparison of a similarly sized facility like El
22 Segundo, you see you actually get good
23 improvements in short term emission
24 concentrations, I'm talking about parts per
25 million and also emission rates, and pounds per MW

1 hour.

2 Those improvements are really what
3 affect air quality, it is concentration of
4 emissions. It is not the mass emission rates over
5 the whole year. It is what is coming out of a
6 particular unit in the short term. You do get
7 improvements in repowering with combined cycle and
8 also best available control technology, putting in
9 the best that you can put in, in emission
10 controls. We think those are improvements to air
11 quality, provide net air quality benefits from
12 repowering.

13 Secondly, when you site a new facility,
14 even if you do have increases in annual emissions,
15 all of those emissions must be off set, and we
16 think that the white paper can do a better job of
17 describing the offset programs so that if a new
18 emissions from a facility increase, they must be
19 fully offset, including at least a 20 percent
20 surplus reduction, as high as 50 percent in some
21 areas.

22 I think a better discussion of that,
23 showing that there is a net air quality benefit to
24 a repowered project associated with emission
25 offsetting.

1 Taking these considerations together, I
2 think the white paper includes those in the
3 discussion. You will find that the report
4 actually can't conclude that there are air quality
5 benefits associated with repowering at existing
6 sites, especially if they are comparably sized
7 equipment.

8 If you add that in along the lines of
9 some of the things I mentioned in the first bullet
10 about water quality improvements, more efficient
11 use of water, more efficient use of fuel, I
12 believe that the report can conclude that
13 repowerings are good environmental policy for
14 California.

15 PRESIDING MEMBER GEESMAN: You know, I
16 first put that in to an Energy Commission report
17 in the fall of 1979. The Commission's 2nd
18 biennial report. We can say that until the cows
19 come home. I've yet to find many people that
20 disagree with it, but if there is something that
21 you think the state ought to be doing specifically
22 to better promote the concept of repowering
23 existing sites, I'd certainly welcome that
24 specific recommendation. I think that if you are
25 going to see a change in this area, you need to be

1 focused on some specific policies that the state
2 should adopt, and you need to be able to defend
3 those policies.

4 MR. HEMIG: Absolutely, I think we agree
5 with that. I think in our written comments, we go
6 into that a little bit. One of our
7 recommendations, and Greg will probably mention at
8 the end, is we are looking for some policy support
9 from this kind of a document here that factual
10 describes the benefits and does provide the back
11 up to the facts. The white paper could be
12 improved a little bit in this area.

13 PRESIDING MEMBER GEESMAN: I'm sure it
14 can. I think my concern is what difference will
15 it make. I think ultimately the investment
16 decision as to whether to pursue repowering at
17 these existing sites ultimately relies on the
18 plant owner and whether the plant owner feels that
19 market conditions are such that it is likely to
20 result in a favorable investment. I think as near
21 as I can tell, the state has been pretty clear
22 over the course of I guess it is 25 years that
23 this is a good idea.

24 MR. HEMIG: Thank you. Go ahead and go
25 to the second slide there for Chapter 6. The

1 other general area where we think some additional
2 discussion could or some changes to the discussion
3 makes some sense is in the discussion of the 316 B
4 assessment in the white paper.

5 Generally, I think this is good factual
6 information. There is some good summary of 316 B
7 and Phase 2 316 B regulations that were recently
8 promulgated. However, I think the report goes a
9 little far in discussing some of the issues that
10 really are within the Regional Quality Control
11 Board's jurisdiction. Some of the concluding
12 statements in the report are really better left to
13 the Regional Water Boards to discuss and to make
14 conclusions on.

15 Two of the specific areas are about the
16 quality of historical studies. A couple of the
17 statements in the report about inadequate data or
18 impacts are much greater than once thought. I
19 don't think those kinds of statements were
20 supported by the Regional Water Quality Control
21 Board's conclusions in their documents such as
22 NPDS permits.

23 A couple of examples are the El Segundo
24 generating stations permit where the conclusions
25 are that the studies were adequate and the studies

1 do demonstrate that there are no significant
2 impacts and that best technology available is
3 employed at the station.

4 Of course, recognized that Phase II
5 requirements are different and recognizing that
6 the next several years additional information and
7 additional work will be needed to determine
8 compliance with Phase II. At this point, all we
9 have is what is the status of the existing
10 regulations, and I think those kinds of
11 conclusions should be included in the report about
12 the adequacy of data and demonstration of
13 compliance.

14 Another more near term example is the
15 South Bay Power Plant has a tentative permit out
16 currently. It did conduct a new entrainment and
17 impingement study in 2003. It was published in
18 2004. There is a tentative order right now that
19 has some findings, first of which is that current
20 data shows that there is no significant impact on
21 Santa Monica Bay associated with the once-through
22 system.

23 Secondly, I think most importantly to
24 this discussion since we've brought this up in the
25 past, is that they did find that the new study

1 correlated very closely with 1980's study and
2 found that actually the same conclusions and the
3 same levels of impact, using the new modern
4 methods that I personally don't believe are much
5 different than what was used in 1980. I think it
6 is a good piece of information and should be
7 included. It shows that historical studies may be
8 or in some cases are still representative of what
9 is going on in the sea around the power plant.

10 The second area is I think it is a
11 little bit early to make some conclusions about
12 how a facility might comply with 316 B. I think
13 that is again better left to the Regional Quality
14 Control Boards and to the owners of the
15 facilities. To make any kind of concluding or
16 judgmental conclusions about the efficiency of
17 available control technology that might be used, I
18 think those kinds of things should be omitted from
19 the report. It is just too early and the
20 information is not yet generated to make those
21 kinds of statements.

22 The Regional Water Quality Control
23 Boards are really the ones that will make
24 judgements on these issues.

25 Lastly, Phase II 316(b) requires

1 significant reductions in baseline impingement and
2 entrainment, but it doesn't actually require
3 evaluation or assessment of direct or cumulative
4 impacts.

5 There is a cumulative impact section in
6 this white paper. I think it is actually not a
7 relevant section. It is because this new
8 regulation does not focus on that. It focuses on
9 reduction. You figure out what is your baseline
10 and you reduce. So, it really doesn't make a lot
11 of sense to say there is an information gap on
12 cumulative impacts associated with this report.
13 It should be focused on just what Phase 11
14 regulations require and how that might affect the
15 operation of the facility or retirement of a
16 facility and probably just left at that.

17 Those are my comments. I can either
18 take questions or later I am going to be
19 participating in a break out session too.

20 PRESIDING MEMBER GEESMAN: Are there
21 questions?

22 COMMISSIONER BOYD: Not a question, but
23 a statement as a Commissioner of Record on the El
24 Segundo case. I think I am going to ask that your
25 comments on El Segundo be docketed by the staff in

1 that case if you don't mind. Well, even if you do
2 mind.

3 MR. BLUE: Thanks, Tim. I'll probably
4 move on to the next one, I guess responding to
5 Commissioner Geesman regarding specific repowering
6 recommendations. What we are hoping is that
7 with -- and we will be making these, in fact, it
8 is part of our written comments, we attached our
9 testimony in the procurement case. West Coast
10 Power filed our own testimony on these issue that
11 is attached, so you guys can see that when you get
12 a chance.

13 We are hoping that the resource adequacy
14 requirements, the deliverability standards, the
15 results of this report, and the like will combine
16 enough to give the PUC some direction on how to
17 handle it.

18 Clearly, as far as the owners of these
19 plants making the decision to invest in the
20 repowering or not, depends on if there is a
21 contract out there for repowering to recover your
22 costs. Because as your report stated, if we can't
23 recover our costs in the current market structure,
24 the market redesign is not going to be done until
25 '07 at the earliest, and so we have this gap again

1 of what is going to happen.

2 If we haven't made enough in our
3 comments here, we will certainly be participating
4 further in this proceeding and try to offer up
5 more concrete recommendations on policy that are
6 defendable. I think at the end of the day when
7 plants are needed in certain locations, they need
8 to be there. If they need to have an RFO or some
9 sort of competition and certain plants win or
10 don't win, we are all big boys. If we are not
11 needed, we are not going to stick around, we will
12 go.

13 We just think to date there just hasn't
14 been any policy. That is all we are looking for,
15 just some policy, some direction, some
16 recommendations, anything from the State of
17 California, including the governor's office the
18 Energy Commission, the PUC. Believe me, this
19 report is a great step in the first direction in
20 that.

21 Moving on with the presentation. This
22 is a what we call Chapter 7 in our recommendation
23 that you actually provide a separate chapter on
24 land use and socioeconomics because we think this
25 is a very important piece of the puzzle that needs

1 to be understood by I think the staff and the
2 Commission, which would include things like the
3 desalination projects that were discussed earlier
4 which is in this section right now under land use,
5 we think that is going to be a major piece of
6 California's future and one of the reasons why you
7 need to maintain some of these existing coastal
8 power plant sites.

9 The other big issue, of course, that got
10 a little bit of mention but really there wasn't a
11 lot of information gathered, and we have, by the
12 way, provided some information in our written
13 comments, which we just filed on Monday regarding
14 property tax that we pay, utility users tax and
15 the likes.

16 That issue is huge in some of these
17 cities that rely on utility user's tax, franchise
18 fees based on how much cash you burn. Some of the
19 sales tax associated with just the commerce of
20 having a plant located in a certain community is
21 very big.

22 Our plant down in Encina in the City of
23 Carlsbad, we have a lagoon, which is part of the
24 power plant property. There is all kinds of
25 activities going on there that is listed there.

1 The sea bass hatchery just released its one
2 millionth fish back into the ocean. We support
3 that facility. We give them a very reduced lease
4 that if they were to lease this property on the
5 open market would be worth hundreds of thousands
6 of dollars a years. We give it to them for
7 dollars a year, things like that, the aqua farm.
8 There is a lot of community benefit that the
9 plants provide.

10 Our plants provide at least in the
11 minimum of \$50,000 a year going back by way of
12 donation, time, and doing things in the local
13 community. I think the communities when you talk
14 to them -- at least our communities where we are
15 located, support us. I can't speak for all
16 communities.

17 There is a lagoon there, we dredge the
18 lagoon which creates protected areas for special
19 status species, and the dredge sand is deposited
20 on the local beaches for sand replacement. We do
21 that on our own. Nobody is telling us to do that.
22 We do it to help the power plant operations, but
23 we give back to the cities with these types of
24 activities.

25 Last, some of the recommendations, and I

1 think you have heard me talk about some of these
2 during the presentation, but I will just walk
3 through them again.

4 The draft staff white paper should
5 support repowering at locations studied in the
6 APBS is good public policy for California.

7 Another specific thing that we are
8 looking for which we did put in our PUC testimony,
9 we think that the Energy Commission should support
10 repowerings as an explicit resource in the loading
11 order of the energy action plan ahead of
12 conventional supply at green fill locations for
13 all the reasons we talked about in the past.

14 We think that the Aging Power Plant
15 Study should acknowledge that the FERC mandated
16 most offer requirements can be revoked at any time
17 and what effect will that have on the reliability
18 analysis.

19 The Aging Power Plant study should not
20 rely on conclusions that the RMR contract
21 guarantees continued plant operations. The Aging
22 Power Plant Study should acknowledge the valuable
23 synergies between desalination plants and existing
24 coastal power plant sites.

25 Last, the study needs a separate chapter

1 on land use and socioeconomics. We will be here
2 all day to participate in the round table
3 discussions. We have a few other people that have
4 come in. Some of our commercial folks will also
5 be able to be here if we need to answer some
6 certain questions that I may particular not have
7 the answer. I have some people here that I can
8 get some answers from.

9 PRESIDING MEMBER GEESMAN: Thank you.

10 COMMISSIONER BOYD: Thank you, Greg. As
11 Chair of the 2003 IEPR, I got to see a lot of you.
12 You should feel pretty good, I think you had an
13 impact on us the last time around, particularly on
14 this subject, so I appreciate your input.

15 MR. LEE: Good morning, Commissioner
16 Geesman, Commissioner Boyd, and esteemed members
17 of the committee. My name is Vitaly Lee. I'm the
18 Director of Commercial and Regulatory Affairs for
19 AES Southland Company that operates three of the
20 power plants that were initially subjected to this
21 study, AES Huntington Beach, AES Redondo Beach,
22 AES Alamitos.

23 The output of this power plants is
24 contracted out under a long term agreement with a
25 third party. Commissioner Geesman, the last time

1 I was offered the podium, I made a statement that
2 the deep cycling on the units hurts the efficiency
3 and the equipment itself, the reliability. You
4 asked me whether Huntington Beach 3 and 4, the
5 units that came on line in the last 18 months are
6 being dispatched in the same manner. I didn't
7 have the answer.

8 My answer to you is that they are being
9 dispatched in the same manner, and I will make one
10 general comment, though, that California ISO in
11 the recent past has become cognoscente of this
12 issue.

13 The ISO chooses to park the units at
14 minimum load under recent waiver versus starting
15 up and shutting them down within a matter of hours
16 or days in the past.

17 To get back to this study, I would like
18 to compliment the staff on this enormous effort.
19 A lot of analysis went into this. I will just
20 make brief comments I have, a few general
21 comments, and then I have five specific comments
22 to make.

23 The general comments are that if I were
24 to summarize the results of this study, aging
25 power plants play a vital role and will continue

1 playing that role in the supply of energy in
2 California. In the years to come, aging power
3 plants are for the most BACT compliant or becoming
4 BACT compliant. Hence, they are no worse than the
5 new generation.

6 Even though the heat rate on these units
7 is a little higher than the new generation, the
8 load following capabilities make up for more than
9 enough to compensate for that difference.

10 There are no technical or operational
11 reasons why these units will not be able to
12 continue to reliably supply power in the years to
13 come. Having RMR a long term contracts in fully
14 functionally capacity market will help extend
15 their life and reliable operation of these units.

16 We concur with all of those conclusions
17 presented by the staff. Furthermore, I will join
18 my colleague, Greg Blue, and say that we support
19 the idea that this state needs to create
20 incentives to expedite the repowering of these
21 units. We think that SB 1776 carried by Senate
22 Bowen signed into law a couple of days ago by
23 Governor Schwarzenegger is the right step in this
24 direction.

25 The five specific comments that I have

1 are as noted by the staff in this draft paper, AES
2 has opted out of this study because the staff put
3 us on the low probability of retirement scale. As
4 such, we did not provide quantitative data to
5 staff. As such, I just want to go on record that
6 we cannot claim responsibility for the accuracy of
7 the data that staff presented in this part as it
8 pertains to AES units.

9 The same comment applies to the staff's
10 calculation of annual fixed revenue requirement on
11 units Alamitos 1, 2, 4, 5, and 6 on page 35
12 because these units are not RMR units.

13 Average heat rate representation on AES
14 units on page 32 is inaccurate.

15 On page 49, the staff talks about the
16 data on forced outage and reliability analysis of
17 these units are outdated and old and how probably
18 there should be some new requirement imposed on
19 the generators to supply this data.

20 My comment is that California ISO
21 actually does have this data through there outage
22 coordination protocol. The last thing our
23 controller and operators need is basically a new
24 obligation to supply this data so you can use that
25 data.

1 Finally, there are some inconsistencies
2 and discrepancies in this report. For example,
3 104 purports AES Alamitos and AES Huntington Beach
4 are located in low income -- I'm sorry, there is
5 substantial population of low income people of
6 color surrounding AES Alamitos and AES Huntington
7 Beach, yet on page 99, the staff states that
8 Alamitos is located in one of Long Beach's most
9 affluent regions. So, there is a discrepancy
10 there.

11 Those of us who are familiar with
12 housing in Orange County, Huntington Beach is not
13 your typical low income community.

14 In conclusion, let me state that AES
15 stands ready to continue our involvement in
16 fostering a fair transparent market to supply the
17 future energy needs. I thank you for your time.

18 PRESIDING MEMBER GEESMAN: Thank you
19 very much. Questions?

20 MR. CARLSON: Good morning. Thanks for
21 having us here again. I appreciate the
22 opportunity to speak the Committee. In
23 particular, I want to express our company's
24 gratitude to the staff here at the Energy
25 Commission and the work that they have done in

1 this report.

2 There is a lot of work that has been
3 done. They have met with a lot of different
4 people in different agencies, and our company
5 believes they have done a great job pulling it all
6 together in something less than normal a boat load
7 of paper. Succinctly stated, the importance of
8 these aging power plants in several respects, not
9 the least of which is electric system reliability
10 here in California.

11 My name is Trent Carlson. I work at
12 Reliant Energy. I am the Director of Asset
13 Commercialization there. I've brought two other
14 gentlemen with me, Roy Craft and Robert Lawhn.
15 Our intention is to participate later today in the
16 other portions of the meeting and provide specific
17 comments and to answer any specific questions the
18 staff or the committee may have.

19 I will keep our comments real brief in
20 this opening here. I think very important to the
21 findings that the Energy Commission staff has put
22 out here is that there is 8,000 MW of capacity at
23 risk. That is 8,000 MW of reliable capacity that
24 is put at risk for several reasons.

25 I want to highlight at least one of them

1 has to do with an unstable market design, an
2 unstable market design that flows from some
3 regulatory uncertainty. Greg Blue from Dynegy
4 showed a simple chart of the impact of losing
5 8,000 MW in total simultaneously against
6 simultaneous peak demand for electricity. That is
7 probably a low probability event as Greg pointed
8 out.

9 However, I wanted to pick up on that
10 idea just briefly here in our opening comments.
11 To point out the fact that one unit or one plant
12 or as few as two plants if unable would have put
13 California in a very different situation this
14 summer, even though we did not have the hot summer
15 that was forecasted as the high load case.

16 The combination that exist in the
17 transmission system that cannot be foreseen a year
18 in advance or sometimes even two years in advance
19 really need to be respected. This finding that
20 the Commission staff is making that there are
21 8,000 MW at risk should not be under emphasized.
22 That needs to be taken beyond the Commission here
23 and shared with the sister agencies and others in
24 the legislature.

25 We also appreciate that the result of

1 the staff's work has explained that these aging
2 power plants are not dirty. They are really not
3 all that less efficient. In fact, looking at it
4 in terms of emissions, we've supplied comments
5 that if the Commission staff were to do a
6 comparison of the aging power plant technologies
7 to the newer combined cycle plants and take into
8 account the emissions from start up and shut down,
9 they would be even closer matched.

10 The study touches on that, it doesn't
11 emphasize it. We are encouraged by the analysis
12 that has been done and the findings put forth in
13 the report. We just think they could be
14 emphasized a little bit more.

15 We really believe that this report sends
16 a clear message regarding the value and
17 reliability benefit of California's aging power
18 plants. We believe that should be, again,
19 emphasized in the report however possible. The
20 results of this report needs to be shared with the
21 sister agencies now, in fact, before the issue of
22 the final report or any follow on study work.
23 We believe that no additional data can be provided
24 to the Energy Commission that will materially
25 effect that finding.

1 Just this morning, briefly I want to
2 touch on two areas that we believe are very
3 important to clarify in the report to the extent
4 there's any supplement issue beyond what we have
5 in hand today.

6 That is, the report indicates that the
7 capacity that may be lost due to aging plant
8 retirements will likely be replaced by a variety
9 of sources including demand side management, new
10 renewable energy projects, increased generation in
11 the existing power plants, new power plants, or
12 transmission upgrades.

13 Just to be very clear, Reliant is not
14 adverse to any of these technologies or
15 alternative supplies of capacity or energy. In
16 fact, we have loads acting as resources in other
17 regions, and we are very supportive of renewable
18 projects and trading of renewable energy credits
19 in other regions of the country.

20 What we would like to see the report
21 clarify is that few of these alternatives can be
22 deployed within the study period, that is the
23 study period 2004 through 2008. On a MW scale
24 equivalent to the size of aging plants that are
25 subject to high or medium risk of retirement and

1 in the locations required to maintain local area
2 reliability with the equivalent flexibility of
3 capacity commitment and energy dispatch and an all
4 end equivalent cost of capacity and energy.

5 We believe that is a very important
6 clarification because we would not want anyone to
7 misread what we understand to be conclusion of the
8 report as to the importance of these power plants
9 and the seriousness at which the 8,000 MW is at
10 risk and possibly a good share of it not
11 replaceable with these other alternatives during
12 the study period.

13 Finally, I wanted to leave the committee
14 with comments that we started with in our last
15 meeting, and that has to do with the market
16 design. I refer to it as the unstable market
17 design, and it is a market design that in our
18 opinion does not need to persist until 2007 or the
19 succeeding or successor market redesign of MDO 2
20 or MRTU or whatever it may be called between now
21 and 2007.

22 In fact, there are several key elements
23 that can be fixed now and should be fixed now to
24 assure that the 8,000 MW of reliable capacity that
25 is potentially at risk for retirement is not

1 retired because of the unstable market design.
2 Those elements include the must offer waiver
3 denial process. It must go away now. It must be
4 replaced with a contracting mechanism to
5 compensate the owners of the resources for that
6 capacity. That is just an absolute must. Without
7 that and with the risk of retirement, the summer
8 of 2004, if we had just the same summer in 2005,
9 we have a different picture if some or several of
10 these aging power plants actually retire.

11 Then there is the reliability must run
12 criteria. For whatever reason, the CAL ISO has
13 chosen not to update that criteria so as to select
14 generating units required for reliability
15 services. Just last week they announced the
16 designations for year 2005. Several of the plants
17 that the Energy Commission's study identified as
18 required for reliability are missing from the
19 designations.

20 We think that is important and timely as
21 to any supplement that the Energy Commission staff
22 might issue in the future to reflect the current
23 status of RMR selections for 2005.

24 Of late, since we last met, Reliant and
25 CAL ISO worked together to bring Etiwanda back on

1 line to address reliability problems this summer.
2 As of bringing one of those units back on line, we
3 found another serious problem that will challenge
4 all of the 18 power plants. That is the
5 California ISO's implementation of its tariff to
6 replace market-based bids of ancillary service
7 capacity with RMR capacity from condition 2 units.

8 There are not many people that I have
9 found that were aware of this problem. In fact,
10 our folks that trade electricity day to day were
11 unaware of the reason why the market for ancillary
12 service capacity would diminish on peak, and
13 actually at times, be higher priced off peak.

14 When we brought on Etiwanda Unit 4 on
15 July 6 of this year, we found out how CAL ISO was
16 implementing the tariff in this respect. In fact,
17 they are not utilizing RMR capacity as and when
18 required to maintain the reliability of the ISO-
19 controlled grid, but instead are using the RMR
20 capacity to replace market-paced bids.

21 Therefore, when we bring our plant on
22 line and in accordance with the contract, we bid
23 the uncommitted capacity into the next available
24 market, the ISO, instead of using it as and when
25 required, uses it to replace market-paced bids,

1 and there in turn, many days, almost on a daily
2 basis, the ancillary service capacity market is
3 collapsed in most hours.

4 We just want to bring that to the
5 Committee's attention. We believe there is a
6 supplement. We would like to see that
7 highlighted, and we would enjoy answering any
8 questions that you might have on this particular
9 subject that has been brought to our attention
10 since July 6.

11 There is also hard wired mitigation
12 procedures that are written into the California
13 ISO's tariff. We are not looking to the Committee
14 to file a complaint at FERC to get these hard
15 coated numbers removed from the tariff, but we
16 would sincerely appreciate this committee's and
17 the weight of this committee and the weight of the
18 technical analysis that it's Commission staff can
19 provide to opine on some of these hard wired
20 mitigation procedures that are currently being
21 enforced in California.

22 We believe that there is appropriate
23 mitigation that must be applied, in particular in
24 local areas so that market power is not a concern.
25 That it can't be generally applied such that at

1 any time any one submits a bid, whether it is
2 called "in sequence" within the market our "out of
3 sequence" and it is priced at more than \$91.87,
4 that all of the bids in all regions of the
5 California ISO are mitigated to reference levels.
6 Absent a reference level being able to calculated
7 at the time to a default level.

8 We think this is a serious matter. We
9 are not asking that all the price caps be lifted
10 to be very clear. We are just wanting this
11 committee to give indication that mitigation
12 procedures should reflect changing market
13 conditions. They should not be hard coated into a
14 regulatory document that reflects a relic of an
15 event that occurred several years past.

16 Finally, and I hope our company is not
17 going to offend anyone with this last comment, but
18 it is our opinion that there is an ineffective
19 commitment to resource adequacy at this time in
20 California.

21 Not to dwell on all of the reasons why
22 we believe it is ineffective, but we still have
23 conversations where folks are debating whether
24 resource adequacy should be assured now, 2006, or
25 2008. We believe it needs to be assured now.

1 Also, the CPUC in its January rule is
2 requiring utilities to prove up 90 percent of the
3 capacity that they will make available in an
4 upcoming summer season. Not 100 percent resource
5 adequacy, that is not the policy. The policy is
6 to prove up 90 percent of the contracts available
7 for the forecasted conditions in the upcoming
8 summer.

9 Worse yet, instead of those compliance
10 showings occurring a year or two in advance, they
11 may only occur six to seven months in advance of
12 the upcoming summer season, leaving little to no
13 time to react.

14 With that, I'll conclude my comments.
15 I'll take any questions or make myself and my
16 colleagues available later in the panels. Again,
17 I appreciate the opportunity.

18 PRESIDING MEMBER GEESMAN: Thanks Trent.
19 You had mentioned your view that the aging plants
20 have value in bolstering against problems in the
21 transmission system that cannot be foreseen one
22 year ahead or perhaps two years ahead. I wonder
23 if you would expand on your thoughts on that.

24 MR. CARLSON: Certainly. The best and
25 most recent example of magnitude is the derate of

1 the pacific DC inter tie that is nominally rated
2 for 3,100 MW. Throughout a good portion of this
3 year, it has been derated to something like two-
4 thirds or a third of its capability.

5 In fourth quarter, it will be I think
6 completed derated to zero. That had a little bit
7 of lead time, and so there was time to react to
8 that. Not time enough to build a plant that would
9 replace the generating units that were called upon
10 and being called upon as I stand here and speak
11 before this committee to respond to that derate.

12 There are other things that cannot be
13 foreseen. For example, you can't forecast hydro-
14 electric power perfectly. If this were a strictly
15 thermal system where you didn't have to worry
16 about hydro-electric generation as part of the
17 mix, it probably wouldn't be that big of deal, but
18 in California, with its Northern California hydro
19 and Southern California Big Creek Project and its
20 dependence on northwest hydro-electric imports,
21 there is enough swing in that alone that if you
22 don't assure resource adequacy, the bottom can
23 fall out of that with about the ease of
24 meteorologists guessing wrong.

25 Finally, there's the typical forest

1 fires which seem to be plaguing us every year,
2 ever year, ever since I've lived here fifteen
3 years ago. Short of solving that problem, which I
4 wish we could, that also creates uncertainty. If
5 these power plants were not here during some of
6 these most recent fires, or I will just say many
7 of the fires over the course of the last several
8 years, we would have been in a world of hurt.

9 PRESIDING MEMBER GEESMAN: You also said
10 that in this last RMR cycle, the ISO had not
11 changed its criteria. What types of changes do
12 you think it should have made?

13 MR. CARLSON: I believe, and I've been
14 criticized for this, and I'm not sure how much of
15 this is company policy at this time, but I have a
16 little bit of operations experience, and when I
17 into a short term problem that must be solved, I
18 look at the historic data that I have. I look at
19 my short term forecast, and I see what
20 transmission is going to be built or may not be
21 built, what type of generation is going to
22 available or not. I don't have to run a lot of
23 studies, I just have to look at my operating data,
24 and I look at which units are being committed
25 routinely to maintain grid reliability. I start

1 there first.

2 The criteria should reflect -- forget
3 criteria, forget what the planners came up with in
4 a committee or some other deliberative process
5 over the course of years. If the power system
6 required capacity in a particular location,
7 whether it be for a local reason, an intra-zonal
8 reason, a regional reason, or some other poorly
9 defined basis, if it is just needed to make sure
10 that you have adequate capacity where you need it
11 to avoid transmission line overloads, the criteria
12 should be crystal clear and the result of the
13 evaluation well understood. Those power plants
14 should be contracted.

15 I believe that the ISO goes into many
16 days putting itself unnecessarily at risk because
17 it has not contracted for the resources that it
18 knows it is going to need several months in
19 advance.

20 PRESIDING MEMBER GEESMAN: Other
21 questions for Trent?

22 (No response.)

23 PRESIDING MEMBER GEESMAN: Thank you
24 very much.

25 MR. CARLSON: Thank you.

1 MR. TRASK: For folks listening in on
2 the web, it turns out we weren't able to use the
3 telephone number that we had posted for folks to
4 call in and give us their comments. I am going to
5 give out a new number right now. It is 888-390-
6 8784. I'll repeat that, 888-390-8784, and then at
7 the prompt you will want to put in a code, which
8 is 21142, which I believe is the same as the code
9 that was in the notice.

10 I'll repeat that in a little bit later
11 on. If you folks who are listening on the web
12 would like to give a comment, go ahead and call in
13 on that number.

14 At this point, unless there is any more
15 general comments or presentations --

16 PRESIDING MEMBER GEESMAN: I had a form
17 from Steven Goschke at Duke.

18 MR. GOSCHKE: Good morning,
19 Commissioners, how are you? My name is Steve
20 Goschke, I'm a power plant manager at Morrow Bay,
21 one of the aging facilities that is featured
22 predominantly in the report, down in the south of
23 Path 15 Basin. I don't have some of the same
24 attributes that some of those facilities up there
25 are in the Bay Area, but I came today to

1 participate in the workshop. Being a plant
2 manager, hopefully I can contribute some field
3 level insight into what is going on, at least at
4 our power plant.

5 A little bit of background. My power
6 plant is a 49 year old facility. It is 1002 net
7 MW. It is all natural gas fired at this point.
8 It's got four units. It is located in Morro Bay
9 on the central coast.

10 A couple of years ago we were running it
11 at 60 percent capacity factor. The last year and
12 a half, it's been less than five percent. This
13 year we are currently sitting at four percent.
14 So, a big change in the California market and a
15 big impact on a business like mine that is totally
16 merchant related.

17 As such, being a merchant facility, we
18 are continually looking at the economics of
19 keeping the place open. We are continuing to do
20 that, and we will be doing that seriously as we
21 get into the fall long path the run season this
22 year.

23 Some of the things that occur in hurdles
24 that Morro Bay has ahead of it include renewal of
25 an out fall easement with the city. We've got a

1 50 year permit when the facility that was first
2 put in place to use the out fall for our discharge
3 of ocean water cooling, and that comes up for
4 renewal with the City of Morro Bay on the 15th of
5 November, a very critical day in the life of the
6 power plant.

7 Our estimates are that could cost us an
8 extra four million dollars and kind of adds to the
9 negative economics of running that particular
10 facility. We are also in the process of getting a
11 new NPDS permit for that facility. Again, those
12 hearings will be head towards the end of this
13 year. It is another potential cost adder to the
14 running of the Morro Bay power plant.

15 Right now we don't have a contract for
16 the out put of the facility. We do get called on
17 the ISO frequently underneath must offer waivers,
18 which again is not necessarily a money making
19 proposition for us.

20 We don't have a RMR contract. We would
21 be willing to keep the place open if we got an RMR
22 contract. We continue to go out and are pounding
23 the pavement daily trying to find someone to buy
24 the output of the power plant. If this sounds a
25 little bit like a sales pitch, I'm not the

1 marketing guy, but if you know anybody that wants
2 the output, give me a call. I'd be glad to talk
3 to them.

4 I guess the report was interesting to
5 me. I thought the staff did a good job. Like a
6 lot of others that spoke, gathered a lot of
7 critical information and certainly have said many
8 times in the report that the threat to reliability
9 from retirement shouldn't be underestimated.

10 Again, my facility is 1,002 MW. October
11 13 of last year I put Units 1 and 2 in an inactive
12 status, is it retirement, is it mothball. Here I
13 am throwing out another term for you to wrestle
14 with, but basically what that means is I took
15 those two units off the PGA Schedule 1 and the ISO
16 no longer calls on those as must offer facilities.
17 There is a mechanism for doing that.

18 I think the report needs to add a little
19 emphasis to address the impact of the regulatory
20 uncertainty related to the wholesale market
21 structure and procurement policies. As long as
22 the structure markets are in transition and
23 disarray, major capital investment is unlikely,
24 except on a project financing based on bi-lateral
25 contracting.

1 The Energy Commission did recently
2 approve repowering of Morro Bay power plant, which
3 I thank you very much. It has been a long process
4 getting that done, and certainly breathes some
5 life back into my facility. The employees were
6 walking around a couple of days with a high fives
7 and still realizing there is a few permits to get
8 through, but that was certainly a big step in the
9 long term vision of what many of us have for that
10 facility.

11 We have had a tough time at the power
12 plant over the last couple of years. I think two
13 or three years ago, we had almost 90 employees
14 there, we are down to 30. A bunch of hard working
15 people. We had 24 start ups, successful start ups
16 so far this year, with the reduced staff and the
17 aging equipment. You know, a little bit of luck,
18 a lot of hard work, which is keeping this plant's
19 head barely above water. There is a lot of things
20 stacking up against it that are coming down the
21 pipe that still need to be overcome.

22 I just wanted to be here today to try to
23 talk to you about some of those things and let you
24 know about the incremental cost increases that we
25 are starting to see that maybe other plant people

1 are starting to see, things like SER, though not a
2 requirement in our particular air basin at this
3 particular time, you know, those kinds of \$15
4 million capital additions to our facility
5 certainly would impact or factor in to our
6 decisions about what we do with the future of
7 those units.

8 I guess like many have mentioned, some
9 sort of short term capacity market structure now,
10 just to get us by this interim period, I think as
11 many that have spoken here today, the electric
12 grid in California is very complicated. As you
13 can see with MDO 2 and some of the load pocket
14 stuff, we are just now starting to come to some
15 understanding of how complicated it is and how
16 much trouble it is.

17 I think there's going to be a little bit
18 of a road to go through to kind of work ourselves
19 through this having some sort of short term
20 capacity marker or whatever to buy us some time to
21 figure that out seems to make a lot of sense to
22 me.

23 I guess I would just like to close by
24 saying we will be seriously evaluating Morro Bay's
25 future here this fall. We are all continually

1 looking for ways to keep the plant open. We think
2 it is a very good plant, a well maintained plant,
3 and can serve the needs of California for many
4 years if it is continued to do that financially.

5 I guess I'd also like to say that we
6 submitted a bunch of written comments that are
7 more specific line by line, chapter by chapter to
8 the study that we can go through in more detail
9 during the break out sessions. With that, I will
10 close unless there are any questions for me.
11 Otherwise, I will talk to you this afternoon.

12 PRESIDING MEMBER GEESMAN: Thank you
13 very much, Steve.

14 MR. GOSCHKE: Thank you.

15 MR. TRASK: This is where I get to say
16 we continue to have technical difficulties, please
17 stand by. It turns out the telephone number that
18 I gave out just a little bit ago goes to a
19 doctor's office, so maybe you can make an
20 appointment. Because we are having difficulty
21 with our phone system, we are encouraging people
22 to send in their comments by e-mail right now.
23 These could be in the form of a questions as well
24 that we can get to during our focus discussions.
25 The e-mail address, again, is IEPRhearing, that is

1 one word, I-E-P-R-h-e-a-r-i-n-
2 g@energy.state.ca.us. Any further general
3 comments or presentations from the audience?

4 MR. MOBASHERI: My name is Fred
5 Mobasher. I'm a consultant with the Electric
6 Power Group. There have been several references
7 to repowering, and my question is really
8 repowering is not defined. Some people use
9 repowering as changing the steam units for
10 combined cycle. That was the original repower
11 that was in the 70's and 80's discussed.

12 Some people use it like the Los Angeles
13 Department of Water and Power use it to shut down
14 existing plants and build a completely new plant
15 at the same site and they call it repowering.

16 Some people just investing on the new
17 existing power plant, they call it repower. So,
18 it is very difficult, so I would really suggest
19 that if some people are using repowering they
20 should define what they mean by repower.

21 When I was at Southern California
22 Edison, we seriously looked at repower meaning
23 converting steam units to combined cycles. They
24 were not economic at that time, this was in the
25 80's. Many places, especially from the coastal

1 plants, there is not enough space to put the new
2 combined cycle. There is a lot of resistance
3 locally to convert these to new combined cycle
4 because the cities around them they think that
5 these units are going to die and go away.

6 It is not going to be very easy to build
7 new power plants there. So, the question is
8 really if you want to keep these existing units
9 alive and you need them because of the contingency
10 that was discussed like transmission contingency,
11 the weather, the hydro, you need these power
12 plants for contingency.

13 At the same time, utilities don't feel
14 that they have an obligation to meet these
15 contingencies. In the old days before
16 deregulation, this was a commitment on their part
17 that they have to keep these units because of the
18 contingency, but I don't think at the present time
19 that the utilities are really looking at the
20 contingency.

21 If you look at their findings at the
22 PUC, there is a significant amount of need that
23 they show, the three utilities they are showing a
24 significant amount of need in the next few years.
25 At the same time, there is no real commitment to

1 go to the market and buy any power from old aging
2 plants. So, I am also concerned that this 8,000
3 MW will be at risk as the gentleman from Morro Bay
4 was saying. You can't keep these units at 5
5 percent capacity and pay for several million
6 dollars of relicensing or whatever the new costs
7 are.

8 Thank you.

9 PRESIDING MEMBER GEESMAN: Thank you,
10 Fred.

11 MR. TRASK: At this point, we are
12 scheduled to go into our more focused discussions.
13 We had in the agenda four topics. I think we will
14 probably shift and just rather to focus on the
15 four chapters, Chapters 2, 3, 4, 5, and 6. That
16 would be five chapters. It's a little after
17 11:00. Would folks like to take a break before we
18 go into discussion?

19 (No response.)

20 MR. TRASK: I suggest we get right into
21 it. By the way, for folks listening in on the
22 web, we did manage to get our presentation up on
23 the website. Also on the website are the agenda
24 and the set of questions that we have put out to
25 folks. They are in the way of general questions,

1 and we have some specific questions. You can call
2 those up on your screen too from the IEPR website.

3 Why don't we start with Chapter 2, which
4 is where we discussed the role of the aging power
5 plants.

6 PRESIDING MEMBER GEESMAN: You know,
7 Matt, maybe we can make use of all this furniture
8 up here and invite people who expect to comment on
9 these to come up and take these chairs. It might
10 be easier to communicate.

11 MR. TRASK: As long as we can get the
12 microphones to work. Virtually, anybody who would
13 like to participate, I would invite staff as well,
14 to come on up and have a seat in the we are
15 calling it the UN pit where the interpreters
16 usually sit I guess.

17 I'll shift over here where I can face
18 everybody at once. We will just open it up to
19 general comments. The first one is did we
20 accurately describe the role of aging plants.

21 It turns out what we hope now is the
22 correct number to call in. It is 888-390-0784,
23 888-390-0784. When you get the prompt, you plug
24 in the code 21142.

25 Would any of our parties like to start

1 just commenting on the factual accuracy of what we
2 have in Chapter 2.

3 PRESIDING MEMBER GEESMAN: There is not
4 a need to repeat any of the general comments that
5 were made earlier. We have picked those up on our
6 record.

7 MR. GULIASI: Thank you, Matt. Actually
8 I have it on a good source that the doctor's
9 office that you gave the number for is actually a
10 gerontologist. I think some of the people put him
11 to good use.

12 MR. TRASK: I may need him.

13 MR. GULIASI: Good morning, I am Les
14 Guliasi from Pacific Gas and Electric Company. I
15 just want to say as a general matter that we have
16 participated in this part of the proceeding
17 through our attendance at the various workshops,
18 and we have provided information to the staff
19 including responses to previous data requests.

20 The remarks that I am going to make
21 today which are basically focused on a few
22 specific questions will be followed by written
23 responses to the questions that the staff posed
24 for us.

25 As a general matter, we are interested

1 in this subject for two major reasons. First of
2 all, we are still the owner of two of the aging, I
3 might say elderly, power plants on the list,
4 Humboldt Bay power plants and the Hunters Point
5 power plant. I certainly, having heard the
6 presentations this morning, don't envy the
7 position of the owners of the other aging power
8 plants in the State of California.

9 At one point, we were the owners of some
10 of these power plants, and I now see that they are
11 faced with the very tough business economic
12 decisions that we would otherwise have been faced
13 with, and it is not an enviable position for them
14 to be in.

15 The second reason that we are
16 interested, besides being the owner of some of
17 these plants, is that as a load serving entity, we
18 have a responsibility to insure that our customers
19 receive reliable service. So, the future and the
20 fate of these power plants is really a big concern
21 to us as we try to fill our obligations to insure
22 that our customers receive reliable and economic
23 service from my company.

24 What we have done is really focus on the
25 various questions that the staff posed for us. I

1 just want to try to provide some response now
2 through my oral remarks. As I said, we will
3 follow up with more detailed written comments that
4 I hope the staff will find useful in rounding out
5 their report.

6 The first question had to do with the
7 filing you made at the Public Utilities Commission
8 about our long-term resource plan. Some of the
9 assumptions contained in our resource plan and
10 specifically about some of the assumptions we made
11 with respect to reliability must run units. Those
12 are really questions, 2(c) and 2(d), for PG & E.

13 Just as a general matter, the
14 assumptions that we made about reliability must
15 run contracts is consistent with the
16 pronouncements we have heard both from the
17 California Public Utilities Commission and from
18 the California ISO that reliance on reliability
19 must run contracts should be reduced.

20 The Commission and decision 0401050 has
21 stated that position and very recently in
22 procurement proceedings, the California ISO's
23 witness Pettingil has made a similar
24 pronouncement. We will provide references to
25 those documents when we submit written comments.

1 In our December 2003 grid expansion plan
2 that we submitted to the ISO, we proposed several
3 transmission reinforcements that are designed
4 specifically to lesson reliance on reliability
5 must run contracts. I can point you to Table 4.1
6 of that plan. We expect many of these
7 transmission upgrades to be in service in the time
8 frame that would help us rely less on reliability
9 must run contracts. Many of these transmission
10 reinforcements have been approved recently by the
11 California ISO.

12 Let me just say further that when we
13 soon issue requests for offers in our procurement
14 proceedings or procurement plan, we will be asking
15 for various products, whether they are short term
16 or medium term contracts for capacity for peaking
17 service, or for load shaping services. We are
18 hoping that the offers we get will meet our
19 resource needs and further enable us to rely less
20 on reliability must run contracts. We are sort of
21 in a wait and see position.

22 Just let me add, I can appreciate the
23 position that the current power plant owners are
24 in. Not knowing what will happen. We do have
25 certain requirements from the Public Utilities

1 Commission to insure we have reliable resources to
2 meet our needs.

3 We hope that the auction process will
4 prove that a competitive market can work, and we
5 hope that not only we get what we need to meet our
6 obligations, but we hope that through that
7 competitive bidding process, California as a whole
8 will learn something from the process, and we can
9 move forward as one small perhaps building block
10 toward a clearer market design.

11 Moving now to question (d). Again that
12 question focused more specifically on RMR. Just
13 to explain the analysis a little bit. We didn't
14 assume which specific units would retire when we
15 filed our long term plan. We considered that
16 there is more than 4,500 MW of aging power plant
17 availability connected to our system. We assume
18 that at least 2,000 MW of that 4,500 or so MW
19 would retire by the year 2010 if those plants were
20 not offered a contractual commitment to allow them
21 to maintain or to upgrade their facilities.

22 We have some evidence, though, that some
23 of the assumptions we made were valid. At your
24 June 9 workshop in this proceeding, I believe
25 someone from Mirant indicated that Contra Costa

1 Unit 6 and Pittsburg Unit 7 which make up over
2 1,000 MW of power combined would retire without
3 RMR contracts.

4 Additionally, we've heard from the
5 California ISO through their local area
6 reliability services recommendations that these
7 assumptions that we made are reasonable. Under
8 some of the scenarios that the ISO looked at,
9 Pittsburg 7 does not have or will not have an RMR
10 contract. Under another set of scenarios,
11 Pittsburg 6, which has 325 MW will not have a
12 contract either.

13 Contra Costa Unit 6 won't have a contract
14 under any of the possible scenarios run by the
15 ISO. Even though some of these units have SER
16 equipment installed and they will be able to run
17 their heat rates as others have mentioned are
18 rather high. Those kinds of considerations may
19 factor in to future analysis.

20 Again, I want to bring into the picture,
21 and I will get into this a little bit later, some
22 of the transmission upgrades that we proposed and
23 some of those that have been approved by the ISO
24 may lead to further reliance or less reliance,
25 excuse me, on RMR contracts.

1 Now, those are some of the factors or
2 forces kind of pushing in one direction, but of
3 course there are forces pushing in the other
4 direction. It may be that some of these power
5 plants might be able to secure short run or medium
6 run contracts.

7 Some of the contractual commitments that
8 they may be looking for from us as we move forward
9 with our request for offers as part of our long
10 term resource plan filing at the PUC. If some of
11 these power plants actually win some bids, then
12 you would see some postponement of retirements.

13 Thank you, that concludes what I have to
14 say about the set of questions No. 2 and turn it
15 over to the next person.

16 MS. JONES: Les, can I ask you a
17 question about your 2003 grid expansion plan? Did
18 you have dates, on line dates identified in the
19 plan?

20 MR. GULIASI: I'm not very familiar with
21 the specifics of the plan, but I believe there are
22 time frames associated with each of the
23 transmission projects and transmission upgrades.
24 I think if someone is here from the ISO who may be
25 more familiar with that information can comment,

1 but I believe there are time frames.

2 MS. JONES: Maybe in your written
3 comments, if you could address how those are
4 progressing, whether you expect them to be on
5 line. We are interested in mostly in the near
6 term time frame of the study between now and 2008.

7 MR. GULIASI: Okay.

8 MS. JONES: Thanks.

9 PRESIDING MEMBER GEESMAN: Why have the
10 RMR contracts persisted so long in your service
11 territory? Edison was able to reduce them pretty
12 substantially in their service territory, why
13 haven't you?

14 MR. GULIASI: I am not actually sure
15 about why they have persisted. I am just guessing
16 here, I'm a little bit outside of my comfort zone,
17 with the amount of knowledge I have about that,
18 but it may be associated with the transmission
19 upgrades and the transmission reinforcements that
20 would be used as sort of the substitute for the
21 reliance on must run contracts. It may have just
22 taken a longer period of time for us to kind of
23 move through that process. That is subject to
24 check. In fact, I can find out.

25 PRESIDING MEMBER GEESMAN: If you could

1 include some addressing that in your written
2 comments. I guess what I am driving at is what
3 has changed now. Obviously, you have come out of
4 bankruptcy, but is there something else that
5 reflects a change on the part of your company's
6 planning process that would cause you now to make
7 an indication that you don't anticipate any RMR
8 contracts after 2006?

9 MR. GULIASI: Again, I think the proof
10 is in the pudding, and we will have to see what
11 happens through the competitive bidding process.
12 To the extent that we can find attractive prices
13 and the right kinds of services being bid, we
14 would take those offers. I think that would help
15 us rely less on the reliability must run
16 contracts.

17 PRESIDING MEMBER GEESMAN: Okay.

18 MR. WEISENMULLER: Hi Les, this is Bob
19 Weisenmuller. I just had a follow up question.
20 On the transmission expansion planning, and I
21 realize you may need to do this in the written
22 comments, what sort of cost effectiveness criteria
23 were you using looking at whether or not to do a
24 transmission expansion or to continue a RMR
25 contract?

1 MR. GULIASI: That's a good question,
2 Bob. I don't know what the specific cost benefit
3 analysis was, but we will look into that, and we
4 can provide some written response that might help
5 the staff.

6 MR. WEISENMULLER: All right. That
7 would be good.

8 MR. TRASK: Any other comments on that
9 particular issue.

10 MS. THOMAS: On No. 2? I'm Mary Jo
11 Thomas with the California ISO. Question No. 2(b)
12 are the staff's assumptions about municipal and
13 RMR unit retirement risk accurate? I provided
14 some written comments, but it is not exactly
15 accurate in the fact that the CEC comments should
16 reflect that while a RMR contract provides some
17 stability for RMR units in itself, a RMR contract
18 does not guarantee the longevity of a given power
19 plant.

20 The contracts are renewed on an annual
21 basis based on new generation, load growth, and
22 transmission projects in those areas. Each year
23 we carefully review each generator and they may or
24 may not make the list as has been pointed out that
25 we are looking at Contra Costa or Pittsburg 6 and

1 7 and those units potentially not making that list
2 this year. It is not ruled out that they will or
3 will not at this point.

4 In the RMR contracts, because they are
5 only on an annual basis, they don't guarantee
6 sufficient -- or the RMR process is not sufficient
7 to insure that the needed capacity will remain to
8 serve the overall system load, and it doesn't
9 provide adequate cost recovery of capital costs
10 for projects that have multiple year annuities.

11 If a generator loses its contracts and
12 then decides that they can't operate and would
13 need to retire the unit, there's some provisions
14 where they wouldn't be able to collect all of the
15 capital cost that has annuities attached to it.

16 We did provide some clarification there
17 and would like that the CEC add some comments
18 regarding the fact that a RMR contract doesn't
19 guarantee that a generator will remain in service.

20 MR. TRASK: Thank you, Mary Jo. The
21 staff -- our conclusion was that if the RMR
22 contract was lost, was not renewed, that would
23 increase the possibility of retirement. I think
24 it is interesting that Greg it sounded like you
25 were saying that a plant could retire even while

1 it holds an RMR contract.

2 MR. BLUE: No, not during the term of
3 the contract.

4 MR. TRASK: Right. As far as our
5 rankings of high, medium, and low, it was only
6 after a unit lost that contract that we
7 accelerated or raised the risk of retirement.

8 MS. JONES: We've also provided some
9 recommendations to move some of the generators
10 into a high priority list because of new
11 transmission projects that would be going in those
12 areas or new generators that may potentially cause
13 these units to be a high risk. So, those are in
14 our comments as well.

15 PRESIDING MEMBER GEESMAN: Let me ask
16 you, Mary Jo, the same question I asked Les, but I
17 guess expanded a bit to pick up all of the RMR
18 contracts. Why, in your opinion, have they
19 persisted so long?

20 MS. THOMAS: I don't know if I am
21 exactly qualified either to answer that question,
22 but I could probably get a good answer for you. I
23 think just from the hearsay that I hear over the
24 cubicle walls at the ISO part of it has to do with
25 a lot of resistance to building new generation

1 from the community and new transmission from the
2 community.

3 PRESIDING MEMBER GEESMAN: I guess to
4 try and pare that down a bit, I am assuming that
5 has a very heavy locational aspect to it. I am
6 fairly familiar on the generation side because we
7 either we see a power plant application or we
8 don't.

9 On the transmission side, while people
10 have focused quite a bit on the larger projects
11 that require CPCN's, I've got a nagging sense that
12 on the small upgrades that go through the GO 131D
13 process and which at least to date there's not
14 been much criticism of that process, whether the
15 local reliability analysis is properly stimulating
16 those investments. Whether we aren't
17 underinvesting in transmission upgrades and end up
18 resorting to reliance on RMR contracts which
19 nobody appears to like.

20 The contracting party will begrudgingly
21 accept as the only way he can stay operating
22 another year, but both the Public Utilities
23 Commission and the ISO have been pretty direct in
24 stating we ought to be getting off of these.

25 My frustration is it doesn't appear to

1 me, other than PG & E's hopes in its long term
2 resource filing, that we clearly are getting off
3 them. They seem to persist.

4 MS. THOMAS: Of course, the ISO does --
5 we also would prefer that PG & E pick up the RMR
6 contracts through the resource adequacy
7 requirement, and we have provided testimony. Phil
8 Pettingil has provided testimony in that the
9 investor owned utilities are in a better position
10 because they -- we can only look at these on an
11 annual basis, where they can look at something in
12 a more longer term.

13 In a longer term basis, they can make a
14 decision of building new generation versus a long
15 term investment in an existing generator. I think
16 that would probably resolve some of those problems
17 if there is a local reliability requirement in the
18 resource adequacy requirements.

19 PRESIDING MEMBER GEESMAN: I guess my
20 question is how much responsibility would you
21 shift to them. The resource adequacy process seem
22 fairly burdened now with pretty large number of
23 expectations on the part of a variety of people.
24 For the last five or six years, the state has
25 looked to the ISO to provide assurances of local

1 reliability. Would you transfer all of that
2 responsibility to the LSE's?

3 MS. THOMAS: I will get you an answer,
4 okay.

5 MR. GULIASI: Commissioner Geesman, may
6 I add to this a little bit more? I think it is
7 very helpful that you sort of parceled this out a
8 little bit in terms of transmission and you look
9 at what the utilities do kind of on a routine
10 basis through as you referenced the G 01 31 D
11 process versus the kind of bigger projects that
12 get more scrutiny and analysis and careful
13 consideration of the ISO. Beyond that, we have
14 the trade offs between generation and
15 transmission.

16 Just one word of caution here. You sort
17 of hypothesized that perhaps the utilities may not
18 be investing enough in transmission projects
19 through the kind of routine G0131 D process. We
20 can analyze that, but in my experience having gone
21 through PUC processes, rate case proceedings where
22 that subject is looked at very carefully, others
23 hypothesize the opposite, that is, that we invest,
24 not only we, PG & E, but I think the utilities
25 tend to invest too much in their transmission and

1 distribution systems.

2 We get accused of gold-plating our
3 systems for lots of reasons. Some people think
4 that we gold-plate the systems because we invest
5 money, it goes into a rate base we earn.

6 The engineers will tell you that they
7 invest what is adequate to insure that the system
8 runs properly. There is a lot of debate there. I
9 think I can say confidently that we believe that
10 we don't gold-plate our system and invest too
11 much, but I guess the question becomes then how
12 much does the ISO take into account those kinds of
13 routine investments in the system.

14 Are they accounted for enough? I would
15 venture a guess that through the ISO's
16 conservative approach, not enough credit is given
17 to those kinds of reinforcements, even though the
18 data are provided, the information is given, then
19 I think that they are not -- again, it is a guess,
20 hypothesis, that they are not valuing those kinds
21 of investments and upgrades sufficiently leading
22 to a more conservative outcome that would -- you
23 know, getting back to your initial question, lead
24 to a decision to enable those RMR contracts to
25 persist.

1 PRESIDING MEMBER GEESMAN: Let me first
2 say that as I think you know, for the last couple
3 of years, this Commission I think has been quite
4 clear in expressing its concern that there is an
5 asymmetric risk as it relates to investment of the
6 transmission system. The risk is of
7 underinvestment, not of over investment.

8 I think our history as a state over the
9 course of the last decade or perhaps two that
10 would suggest that gold-plating the transmission
11 is a bit of a false boogie man. Having said that,
12 the persistence of congestion in my mind raises
13 questions as to whether or not the utilities
14 aren't under investing. I understand that the RMR
15 process is a reliability focused process, so you
16 can't expect it to render results that it would
17 eliminate all economic congestion.

18 I also understand it is a fair amount of
19 what they characterize as institutional congestion
20 that appears just given the way in which we
21 operate the system. It is not physically real.

22 In Southern California this year, we've
23 been on the verge several times of reliability
24 problems caused by congestion or limitations on
25 our ability to import. That translates to me as a

1 policy maker, as a very pertinent symptom of a
2 underinvestment problem. I am trying to determine
3 what can we adjust in our planning and investment
4 review decision making that will correct that and
5 correct that in a timely way.

6 I recognize it is a bit afield from this
7 question of addressing problems that confront the
8 aging plants, but to the extent that it involves
9 the RMR contracts and the RMR process, I think it
10 is central.

11 Trent?

12 MR. CARLSON: Yes, Commissioner Geesman,
13 I'd like to add to that. Earlier you asked the
14 question how much responsibility should the CAL
15 ISO shift to the utilities, and I don't know what
16 that answer is either, but I believe you are
17 hitting on something. That is, what policy would
18 the Commission adopt or the agencies adopt who
19 would get transmission built when and where it is
20 needed and power plants sited when and where they
21 are needed.

22 The Commission and sister agencies could
23 adopt policies in an attempt to enforce them.
24 What we are trying to bring to this draft report
25 and what we would like to see reflected and

1 emphasized is that even if the Commission were to
2 adopt a policy in an attempt to enforce it, at the
3 present time lacking any changes in the near term
4 during the study period to the market design you
5 would be running counter to the incentives
6 created.

7 For example, the must offer waiver
8 denial. Now RMR is not perfect. It is not
9 something you go to a bank and say I want to go
10 build a unit because I can get a RMR contract from
11 year to year obviously, but at least the cost
12 allocation is appropriate.

13 The cost allocation is to the
14 transmission owner in whose service territory the
15 RMR unit is located. To this point, when a unit
16 is denied a must offer waiver request, the cost of
17 starting up that unit, running it at minimum load
18 at the least economic part of its operating curve,
19 that is uplifted to the entire market on a load
20 ratio share basis, which tells the transmission
21 company just the opposite what you would adopt
22 this policy to get a transmission line built there
23 or generator built there.

24 Our point is, (a) we agree with you,
25 there needs to be policy that is clear. We have

1 hear statements previously that maybe the
2 transmission siting should be a little bit more
3 qualitative than quantitative. We are fully on
4 board with that here, and which I wish would catch
5 on across the United States, in fact, but we have
6 to have the market design running at least some
7 what in parallel. It cannot be running orthogonal
8 or 180 degrees out from any beneficial policy that
9 this Commission might adopt.

10 Right now they are at least orthogonal,
11 and in many respects 180 degrees out from what I
12 believe this Commission is intending to accomplish
13 by way of this current evaluation of aging power
14 plants. Thank you.

15 PRESIDING MEMBER GEESMAN: Greg.

16 MR. BLUE: Commissioner Geesman, first
17 of all, I want to thoroughly endorse Trent's
18 comments. Bottom line, the must offer process is
19 allowing Edison to get free capacity and passing
20 on part of that cost to Les here. I am sure they
21 are not happy about that either. It is a big
22 issue. That is what they call a perverse
23 incentive where Edison is not incentivized to
24 contract. RMR's could go away tomorrow if they
25 would sign up the contracts they need.

1 Getting back to one of your earlier
2 questions, and I am going to get to a couple of
3 quick answers here in just one second, but you
4 also asked why does Edison not have RMR and PG & E
5 still does.

6 Early on in the ISO process, I think
7 this happened after the first year of RMR, Edison
8 was able working with the staff, convince the
9 staff at the ISO to actually change the RMR
10 criteria. I don't have the exact change, but they
11 made a change to some how in the criteria itself
12 that allowed them to substitute the RMR plants
13 with some condenser upgrades, which they have
14 done.

15 Now, based on the situation in today's
16 market, they really should be having RMR
17 contracts, and right now they are not incentivized
18 because they are getting what we determined as be
19 free capacity. They are not paying for it. They
20 just sit back. In their current procurement
21 practices in today's market is they are buying
22 power that can't be delivered to the load. Yes,
23 there is congestion, but it is all part of the --
24 that could be fixed with enough upgrades to the
25 transmission system, but it is not going to happen

1 in this study period time. Just like in this four
2 year time period.

3 I have a question for Les, are we
4 allowed to kind of ask questions?

5 PRESIDING MEMBER GEESMAN: Yes, please.

6 MR. BLUE: Les, you had mentioned that
7 PG & E is going to be putting out a RFO, and I am
8 assuming that is after the final decision which
9 could be now into next year based on the final PUC
10 decision approving a long term plan?

11 MR. GULIASI: Right. The PUC decision
12 we hope will come out at the end of this year.
13 Like most PUC decisions doesn't meet the stated
14 time frame, so this may be early next year.
15 Obviously, we will be doing all the necessary
16 planning to get those requests for offers out as
17 soon as possible.

18 MR. BLUE: My point of that is we are
19 still going to have a gap. We endorse PG & E's
20 approach to going out and solving the problems. I
21 think part of the issue over the last couple of
22 years was that you had one entity responsible for
23 liability, and then you had another entity
24 responsible for paying for it. So, you had kind
25 of a potentially not everybody being on the same

1 page. Hopefully, that is going to be resolved
2 here in the future if we can get there fast
3 enough.

4 MR. GULIASI: How would you see that
5 being resolved between the ISO and the LSE's as it
6 relates to reliability?

7 MR. BLUE: I think when the resource
8 adequacy requirements are in place, whatever
9 deliverability standards are in place, that will
10 put some requirement on load serving entities to
11 buy in certain locations or to buy power that is
12 deliverable, thereby alleviating the need for RMR
13 contracts.

14 If they do some multi-year contracts in
15 a certain area, that is how it is going to be
16 relieved, through the PUC resource adequacy
17 requirements. That is one of our comments to the
18 whole resource adequacy requirements is that they
19 have to be requirements and there has to be if
20 they don't meet the requirements, there has got to
21 be some consequence to that. That is all kind of
22 fuzzy right now.

23 PRESIDING MEMBER GEESMAN: What is your
24 level of satisfaction with the approach we are
25 taking in the Edison service territory this

1 summer?

2 MR. BLUE: You mean '04?

3 PRESIDING MEMBER GEESMAN: Yes.

4 MR. BLUE: Or '05?

5 PRESIDING MEMBER GEESMAN: '04.

6 MR. BLUE: In regards to what?

7 PRESIDING MEMBER GEESMAN: Local

8 reliability.

9 MR. BLUE: They haven't done anything
10 yet. There has been an order out, there's an
11 order out.

12 PRESIDING MEMBER GEESMAN: They've been
13 directed to do so.

14 MR. BLUE: They've been directed to.
15 There's an advice letter that has kind of laid out
16 a procedure, no procurements yet. It's August.
17 We are expecting any day now another advice letter
18 that actually puts it in a requirement to procure.
19 We haven't seen it yet, so I can't comment until
20 that actually happens. It is coming, they say
21 it's coming.

22 PRESIDING MEMBER GEESMAN: Do you think
23 that is a preferable direction to move in than
24 continued reliance on the ISO's RMR structure?

25 MR. BLUE: It's a baby step in the right

1 direction. By getting the LSE's to actually
2 procure in the load pocket versus the ISO.
3 Nothing against the ISO, but I would rather do
4 business with the utility.

5 MS. JONES: Let me ask you a question
6 related to that. We've heard a lot of discussion
7 about the load pockets, but the congestion appears
8 to be a fairly transient and difficult to pin down
9 phenomenon, and how do you specify resource
10 adequacy requirements when you have such changing
11 conditions on the system that adequately assure
12 reliability?

13 MR. BLUE: I don't think I am qualified
14 to answer that because I am not a transmission
15 expert, and I haven't realized that the conditions
16 were changing so drastically, I guess so rapidly.
17 I don't have a good answer for you, but --

18 PRESIDING MEMBER GEESMAN: Let me ask
19 those of you that care to address that in your
20 written comment, try and reconcile that for our
21 benefit with AB 57 and the ostensible commitment
22 to not conduct retroactive reasonable reviews of
23 utility procurement decisions.

24 If we are attempting to move in a
25 prescriptive pro-active direction where the

1 utilities receive their guidance from the state in
2 advance, try and reconcile that with a rapidly
3 changing local reliability consideration and
4 whatever rules the regulatory system can impose on
5 the utilities proactively.

6 MR. BLUE: We are going to file some
7 supplemental comments anyway, so we will try to
8 adjust that. I will say that it could be a
9 situation where you actually you can never get rid
10 of all the RMR. You can reduce RMR, but there
11 potentially could be some situations where you
12 need a certain plant or two at a location period.
13 So, there might be a potential that you always
14 need some RMR. I'm just speculating.

15 PRESIDING MEMBER GEESMAN: I guess the
16 other aspect of that, Greg, that I have some
17 concerns about is the extent to which transferring
18 these responsibilities to the utilities ends up
19 eroding the commitment or enforceability of a non-
20 discriminatory open access to the transmission
21 system, and whether you or any other plant owners
22 who may in fact find yourselves competing with the
23 utility on plant in the future, feel that kind of
24 transfer is something that jeopardizes a hard won
25 right of open access and non-discriminatory

1 access.

2 MR. BLUE: We will put some thought to
3 that. Our focus has been a lot shorter term.

4 PRESIDING MEMBER GEESMAN: I understand
5 that. I've been in that situation myself before.

6 MR. BLUE: I understand, but let me get
7 to a couple of questions. Real fast, I want to
8 clarify a previous speaker who asked about the
9 definition of repowering and that there are
10 different definitions.

11 I certainly agree with that. West Coast
12 Power had been using the term redevelopment, which
13 means our plans would be to build a new facility
14 on the existing site. At the suggestion of
15 Commissioner Geesman, we went back to using the
16 word repowering because that was the terminology
17 that was best understood. I think most people --
18 well, I will just speak for us, others can speak
19 for themselves, but when we say repowering, we
20 mean West Coast Power, we mean building a new
21 plant on an existing site, similar to Duke at Moss
22 Landing and so forth.

23 A couple of quick questions, I mean very
24 short answers. We have filed answers to all these
25 questions in our written comments, so I am not

1 going to go into all the answers, but a couple of
2 the highlights I think 2 (a) did the white paper
3 accurately describe the role of aging power plants
4 in the system. I think to the extent that it
5 picked up the issues, yes.

6 What it did not pick up, did not fully
7 acknowledge, was how the loss of the existing
8 sites for generation could create this kind of
9 complications for the grid and we haven't touched
10 on that at all. Meaning the loss of a site
11 meaning if you have a plant retire and it is not a
12 power plant anymore, it's condos or whatever, that
13 issue hasn't really been looked at.

14 PRESIDING MEMBER GEESMAN: Do you see
15 that as a land use issue?

16 MR. BLUE: Yeah.

17 PRESIDING MEMBER GEESMAN: Your new
18 chapter?

19 MR. BLUE: Yes, definitely. Again, we
20 heard discussion on the RMR units. Just to give
21 you an example of another issue that could come up
22 with RMR, we had a RMR unit that was designated by
23 the ISO, and it was one of our small CT's down in
24 San Diego, so it is not a big impact to the
25 system, it was like 13 MW. However, it was

1 designated RMR for '04 like it was designated last
2 year. We had to make significant capital upgrade
3 to that plant.

4 We bought the capital upgrade request
5 back to the ISO, and they rejected it. Therefore,
6 we couldn't do the upgrades, so therefore, we had
7 to retire it. There are those types of situations
8 where the ISO could designate you a RMR and if you
9 have to have capital upgrades because you haven't
10 been putting any -- you've been living on one year
11 contracts, there is a potential that the ISO could
12 reject that, and that leaves you with no
13 alternative at that point. It is just an example
14 of another twist on this RMR thing.

15 As far as the economics of aging power
16 plants, it seems to me we've not had a chance to
17 actually -- I haven't gotten the numbers back from
18 my folks in Houston about how valid these
19 estimates are, although the staff acknowledge that
20 it is some of the information they just don't
21 have, and they make some estimates. But the
22 description, the actual description of the
23 economics of the plant are correct. I just can't
24 speak to the validity of the actual numbers that
25 you estimated. We are going to get you some

1 comments on that in our supplemental comments.

2 Let's see, the last question (f), I
3 think are the estimates and assumptions in the
4 aging plants as competitive provide us a capacity
5 are accurate? Yes, we believe that it does. The
6 white paper does a good job of dispelling some of
7 the erroneous assumptions about the aging plant's
8 ability to provide this capacity. Of course, it
9 is all provided. There is a contract to support
10 that.

11 That's all, thank you.

12 PRESIDING MEMBER GEESMAN: Thank you.

13 Any other comments.

14 MR. FLYNN: First of all, I am Barry
15 Flynn with Flynn RCI. I wanted to get back to
16 some of the questions by the commissioners with
17 regard to the economic trade offs on local
18 transmission additions. I think it is a
19 difficult -- the amount of information that is out
20 there in public on that is somewhat limited. The
21 ISO goes through their large process every year,
22 and they feel that under their tariff they can't
23 share all of the information.

24 The one suggestion that I had is I felt
25 that the consultant's report the commission

1 obtained that sort of looked back at what the
2 economic impact was of transmission that was built
3 some time ago was actually quite useful.

4 Even though we can't get the up pits, it
5 is harder to predict what happens in the future.
6 I'd like to encourage you, your staff, and maybe
7 the utilities to take a couple of examples of what
8 has happened in terms of a specific RMR reduction
9 due to a specific upgrade, what was that upgrade,
10 and what was the annual savings. I think that kind
11 of activity that you did for major additions on a
12 local basis would be very insightful. Thank you.

13 PRESIDING MEMBER GEESMAN: Thank you,
14 Barry.

15 MR. TRASK: Commissioners, we have come
16 across a interesting graphic here and it is
17 supplied by Mary Jo Thomas of the ISO. I
18 apologize I don't have this in electronic form
19 readily handily, we just got the permission to
20 release this publicly. It is just a graphic that
21 compares congestion against the peak of a period
22 of June 2003 through August 2004. What it clearly
23 shows is there is essentially no correlation to
24 the amount of congestion in the system and the
25 peak. You can see on some days when the peak is

1 very low around 1,000 MW, we are getting more than
2 2,000 even 2,500 MW of congestion.

3 Conversely, when we hit our record peak
4 or the one big spike in late March, we had a
5 little bit over 45,000 MW of load. We had almost
6 no congestion, less than 500 MW of congestion.
7 We will get this on the website and have people
8 comment on it.

9 MS. THOMAS: It should be pointed out,
10 though, that also on our July peak -- I don't know
11 if I have the exact number here, I can look, but
12 it was over 1,600 MW, so the point being is that
13 congestion can occur well up to 2,000 MW during a
14 peak. So, this is because -- we have seen this
15 congestion -- on the graph, too, the other thing
16 that should be pointed out is when the congestion
17 started occurring was after the new generation and
18 some retirements started occurring too. So, a
19 combination of those new generation and
20 retirements has caused congestion on the system.

21 PRESIDING MEMBER GEESMAN: Is that a
22 state-wide number on the graph?

23 MS. THOMAS: That is state wide, yeah.

24 PRESIDING MEMBER GEESMAN: Would it be
25 similar?

1 MS. THOMAS: It is pretty much all
2 Southern California, though.

3 MR. CARLSON: Is it intra-zonal
4 congestion?

5 MS. THOMAS: That is intra-zonal does
6 not consider any inter-zonal congestion, so it is
7 congestion from generators located within the ISO
8 control area.

9 MR. CARLSON: How is that measured based
10 on dispatch instruction or transmission limit?

11 MS. THOMAS: It is based off of dispatch
12 instruction, so the way I calculated it was if a
13 unit demand was due to intra-zonal congestion,
14 then I counted it as MW towards congestion.

15 MR. CARLSON: Are you measuring the
16 energy dispatch or the total capability of the
17 unit committed towards the local congestion?

18 MS. THOMAS: That is the settlement --
19 the MW settled during the hour of peak, so the
20 settlement demand generation, so I guess it is a
21 integrated MW.

22 MR. CARLSON: Integrated MW hour?

23 MS. THOMAS: Yeah, MW hour, so it is the
24 integrated demand during that one hour.

25 MR. CARLSON: I would submit that is an

1 understatement of the amount of congestion based
2 on an energy figure as opposed to capacity
3 committed for the purpose I think Mary Jo would
4 probably agree with me as many of these units are
5 committed, brought on at minimum level, as to
6 respond prospectively to the outage of a
7 transmission facility or other transmission lines
8 so that they can be ramped to the top. So, the
9 capacity is in my opinion a better indication of
10 magnitude of congestion than the energy figure.
11 Energy figures would tend to understate.

12 MS. THOMAS: It might understate it
13 slightly. It would be really hard for us to right
14 now go through and calculate the exact capacity at
15 the moment. This was the best way for me to get a
16 quick look at it, but it does indicate that it has
17 gone out more retirements would cause probably
18 most likely cause more congestion. We've got a
19 lot of new generation coming on line to replace
20 some of the retirements.

21 It is my opinion that we shouldn't count
22 in advance and say we have "X" amount of MW's
23 coming on line in three months so we can retire a
24 unit in three months. We need to wait and see
25 what happens. What kind of congestion, what other

1 kind of problems is it going to cause on the
2 system. Once we see that it is not going to cause
3 any problems and the load growth is not going to
4 require that unit, then you can consider retiring
5 it. But to say that you can retire it before all
6 of the facts are out is probably not the most
7 smart thing to do because we didn't anticipate all
8 this congestion before hand.

9 Part of the congestion on there is
10 because the DC line was out too. So, we had to,
11 again, when the DC line was out, we had to call on
12 some units to ramp up because we couldn't get the
13 capacity out in other areas.

14 MR. TRASK: Mary Jo, can I ask you
15 especially on the event on March 31, the amount of
16 congestion that was seen then, was that mostly due
17 to the fact of which units were on line and the
18 locations of those units?

19 MS. THOMAS: I don't think we have done
20 a real thorough analysis as to exactly what caused
21 congestion. It's part of the load requirement,
22 where the load is, what generators are running at
23 the time. There are a lot of things involved that
24 would cause congestion. It is very hard to study
25 it too and predict it in the future. We can come

1 up with some predictions, but that is putting in
2 thousands of different assumptions and hopefully
3 assuming that you made the right assumptions to
4 calculate it, or estimate it, or model it.

5 MR. TRASK: The theory of chaos over
6 rides.

7 MS. THOMAS: Yeah. I guess the
8 statement that you just made about being able to
9 study and predict the congestion, that is one of
10 the difficulties that I have in how you actually
11 develop deliverability requirements and resource
12 adequacy requirements that adequately pick up
13 these things that are so difficult to understand
14 and so difficult to predict.

15 I don't personally do the modeling. I
16 have asked some people who do do the modeling, and
17 they said they can get most of it, but it is not
18 guaranteed that they have. I think that any type
19 of deliverability is better than none.

20 PRESIDING MEMBER GEESMAN: I think
21 there's a conflict of cultures involved though
22 from a operations culture that your organization
23 is forced to prioritize to the bean counter
24 culture which the regulatory system for one reason
25 or another has chosen to prioritize.

1 I'm not certain there is a good way of
2 meeting both cultures needs as it relates to
3 things like deliverability standards or
4 responsibility for local reliability. I realize
5 there is a limited amount of information that you
6 can actually make public or to provide to the
7 utility under your tariff. The regulatory system
8 wants to know why we can't have 100 percent and
9 why can't we look at that in an open public forum.

10 I think these are going to be difficult
11 objectives to reconcile. I appreciate the fact
12 that we need to do that in such a way that we
13 don't jeopardize our ability to operate the
14 system. These guys in front of us are on a
15 quarter to quarter decision as to which plants to
16 continue to come up with the O & M costs for.

17 Greg?

18 MR. BLUE: I think as far as the issue
19 of predictability of congestion, I think that it
20 is going to get easier once the utilities start
21 actually procuring forward for terms of years, 1,
22 3, 5. Knowing where the utilities are procuring
23 is a big reason of the congestion, and Edison has
24 stated or it has been stated by others that Edison
25 is buying a lot of power at the border. That in

1 itself physically they can't get it there
2 physically that is going to cause congestion.

3 Once they start buying forward -- I mean
4 it will become more predictable should I say.
5 Right now there aren't any long term contracts.
6 They are out there buying short, not daily, but
7 short, pretty short. Things are moving around, I
8 agree with that, but that is my opinion, once
9 you -- I think it will become easier once the
10 utilities start lining up their procurement and it
11 is known and people will all know it.

12 PRESIDING MEMBER GEESMAN: You must have
13 been a big fan of the DWR contracts and the
14 stability they brought to the system. Trent?

15 MR. CARLSON: I'll just offer one
16 comment. Take Mr. Jones here or Advisor Jones.
17 There is a good amount of deliverability that can
18 be quantified on a sufficiently forward basis.
19 I'll just give you a couple of examples. This
20 will not be an exhaustive list, and Mary Jo can
21 supplement or clarify.

22 For example, there is a certain amount
23 of in-base and generation in Los Angeles Basin
24 that is required. Various levels, once you hit a
25 certain amount of load, you need a certain amount

1 of capacity based on a forecasted time frame with
2 a forecasted condition of the transmission system
3 best case.

4 The same exists for San Diego area as
5 well as different slices, if you will, of the San
6 Francisco Bay Area, and then there is the Humboldt
7 area. So, you do have these local, if you will,
8 sub-regional constraints -- I'm trying to pick a
9 word, if it is less ambiguous, but there are these
10 smaller portions of the overall system in
11 aggregate that are quantifiable on a sufficiently
12 forward basis so as to allow counterparties to
13 contract, if and only if the incentives to forward
14 contract exist. I think that is what Mr. Blue is
15 getting at here, absent a reason to do it.

16 The investor-owned utility companies
17 sought to turn their shareholders and explain why
18 they did something that was counter intuitive to
19 the economic incentives they face. I don't mean
20 to be kicking a dead horse here, but I think this
21 all relates to what are the incentives, and what
22 is the information that is made transparent to the
23 market.

24 There is a substantial amount of
25 information that is already made transparent to

1 the market. If it were only made available on a
2 more forward basis, and the rules were clear as to
3 who had what obligation for supply and for
4 contracting obligation. So, I don't think we are
5 starting from scratch, and it is not all wide
6 open, undefined, unquantifiable field.

7 MS. JONES: Don't misunderstand. I'm
8 not arguing against forward commitments, I'm
9 wondering how much of the problem was a load
10 pocket issue you can solve with forward
11 commitments.

12 MR. CARLSON: I think the majority of it
13 in our opinion, Mary Jo may correct me on that,
14 but that is my experience.

15 MS. THOMAS: I think that the ISO agrees
16 that if the most serving entities were able to
17 forward contract and have longer term contracts
18 that it could resolve a lot of those issues.

19 PRESIDING MEMBER GEESMAN: How far
20 forward?

21 MS. THOMAS: I'm not going to speak for
22 the financial incentive for doing that, but I
23 think forward enough that you can have an
24 incentive to keep the right generation around or
25 build new generation where required and/or

1 transmission that its energy efficiency and demand
2 response, you know, whatever it takes. To have
3 some sort of longer term commitment than what the
4 ISO is able to offer.

5 PRESIDING MEMBER GEESMAN: That is
6 longer than one year?

7 MS. THOMAS: Yeah.

8 PRESIDING MEMBER GEESMAN: Trent.

9 MR. CARLSON: If I may again. I believe
10 it is the same time frame as incremental
11 transmission improvements. The example that comes
12 quickest to mind is several years back, the Bay
13 Area limit was largely defined by the need for one
14 more 500 KV to 230 KV transformer bank
15 installation.

16 The deliverability or the need for
17 peninsula generation was predictable several years
18 out looking forward to the installation of that
19 next transformer installation. So, it is things
20 like that, that are quantifiable on a transmission
21 planning horizon. Not all things, but many.

22 PRESIDING MEMBER GEESMAN: How do I make
23 an apples to apples comparison there? How long a
24 period of time do I amortize the transmission
25 over?

1 MR. CARLSON: As compared to?

2 PRESIDING MEMBER GEESMAN: Signing a
3 two-year contract with your company.

4 MR. CARLSON: If the transmission owner
5 is paying for the transmission upgrade, I would
6 think you would try to make that economic
7 comparison on the most similar basis as possible.
8 You try to -- I don't know if I am understanding
9 you --

10 PRESIDING MEMBER GEESMAN: I'm trying to
11 determine what is the most similar basis possible,
12 and is that the appropriate way of framing the
13 question?

14 MR. CARLSON: It seems like if the
15 transmission owner knows that ultimately they face
16 a transmission improvement in the pending time
17 they face a congestion risk, then that defines
18 over a time frame however the utility wants to
19 define it a hedge that could come by way of load
20 management or interruptible dispatchable load
21 versus incremental generation supply or what have
22 you.

23 PRESIDING MEMBER GEESMAN: That tries to
24 stimulate the utilities decision making structure,
25 but in the past, the state hasn't always been

1 comfortable relying on those instincts. Arguably,
2 regulators attempt to take into account a broader
3 rate payer or societal perspective. As it relates
4 to the transmission investment, let me hypothesize
5 that is a long term asset which the utilities
6 customers will enjoy the benefit for the service
7 life of the asset, irrespective of what the cost
8 recovery factor is or the accounting depreciation
9 is.

10 A two year contract with your company,
11 though, doesn't confer any benefit necessarily on
12 the rate payer beyond the term of the contract.
13 So, how do I get to an apples to apples comparison
14 if I am the regulator trying to make the decision
15 that is in the best interests of the rate payer?

16 MR. CARLSON: I don't know if I can
17 answer your hypothetical directly. Isn't the
18 apples to apples comparison start with just simple
19 service continuity, you assume there is no load
20 interruption under the two different alternatives
21 that you are evaluating?

22 I guess you would have to compare let's
23 just say hypothetically, so we are talking about
24 people or locations, PG & E is looking for
25 incremental supply as compared to incremental

1 transmission import capability into the Bay Area.

2 So, its requests for offers should reflect that it

3 is looking for economic alternatives to

4 incremental transmission costs. So, I don't

5 know -- did I answer your question, or am I

6 completely missing your point?

7 PRESIDING MEMBER GEESMAN: No, let's

8 address this in any supplemental written comments

9 that you guys choose to file. I am not certain

10 that I have a clear handle on it either. I am

11 concerned, though, that it is difficult if not

12 impossible to make a fair and objective

13 comparison.

14 I am personally of the belief that the

15 RMR process in my mind may very well be under

16 counting those transmission benefits by attempting

17 to force that amortization or cost recovery

18 factory of the longer term, if you will, societal

19 investment in transmission into a time frame that

20 is more directly comparable to a one year RMR

21 contract. I think that perpetuates some of our

22 reliability problems and a lot of our congestion

23 problems and results in an under investment

24 overall in the transmission system.

25 MR. CARLSON: We would agree with that

1 and just to add to that, I think what fits with
2 the approach, if I am understanding you correctly,
3 would also be an exit strategy. In other words,
4 for whatever supply is required to fill the gap
5 like some short term stop gap measure like a RMR
6 contract, there must be a plan to eliminate that
7 contract even before you enter into it. It is not
8 clear to me that is always the case.

9 PRESIDING MEMBER GEESMAN: Yeah, I agree
10 with that. Greg.

11 MR. BLUE: I have seen recently a white
12 paper, and I can't recall who wrote it and I
13 haven't read it yet, but I will get my hands on
14 it. It discusses a methodology for how you do the
15 apples to apples comparison. There are people out
16 there thinking about this very topic. I'll see if
17 I can get my hands on it and file it.

18 PRESIDING MEMBER GEESMAN: Yeah, I think
19 that would be helpful.

20 MR. BLUE: I have seen it in the last --
21 in fact, it may be filed under procurement
22 proceeding, I'll have to check, but there is a
23 white paper out there by somebody. I'm not
24 endorsing it, I haven't read it.

25 PRESIDING MEMBER: Sure. Matt, you want

1 to walk us through.

2 MR. TRASK: If there is no more comments
3 on Chapter 2, role of the aging plants, we will
4 note that we are just after noon here, and I would
5 guess that since we have four more chapters to get
6 through that we are looking at a couple of more
7 hours of participation, so perhaps we should break
8 for lunch.

9 PRESIDING MEMBER GEESMAN: Sounds like a
10 good idea. Why don't we come back at 1:15.

11 (Whereupon, at 12:13 p.m., the workshop
12 was adjourned, to reconvene at 1:15
13 p.m., this same day.)

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1 AFTERNOON SESSION

2 1:15 p.m.

3 MR. TRASK: We are on the record. Folks
4 listening on the internet, again, I want to remind
5 you that you can call in if you have any comments.
6 The number once again is 888-390-0784, and the
7 pass code is 21142.

8 We thought we would move on to the
9 questions in Chapter 3 which are up there on the
10 screen and encourage anybody that has any comments
11 about Chapter 3 to come on down to the pit area
12 here.

13 I think I will just open it up to
14 general comments about our reliability analysis,
15 both the power flow modeling we did on the
16 transmission system and the result in overloads
17 that we determined would occur, as well as the
18 forced outage rate type information on the
19 generating units themselves.

20 Any comments?

21 MR. GULIASI: Les Guliassi from PG & E.
22 I have some comments on a couple of the questions.
23 I think I will comment on 3(c) and 3(d), but not
24 in 3D.

25 Let's see, with respect to 3(c), the

1 staff asked that various parties review the sample
2 of power plants listed to insure that there is a
3 comprehensive list of when retirements might
4 occur.

5 Overall, I think that the list and the
6 listing is reasonable. I want to note that
7 Hunter's Point is not on the list, even though we
8 believe that the plant will be retired in 2006.
9 As everybody here probably knows, the California
10 Public Utilities Commission just last week
11 approved the Jefferson Martin transmission line,
12 which is a major step in achieving the goal of
13 retiring Hunter's Point.

14 While we are in the process of working
15 out a more detailed construction schedule and
16 reviewing the decision to make sure we take care
17 of all the necessary compliance items, we hope
18 that the line will be constructed by the end of
19 2005 enabling the shut down of the plant in early
20 2006.

21 Can I move on to the next question,
22 3(d)?

23 MR. TRASK: Sure.

24 PRESIDING MEMBER GEESMAN: Let me ask
25 you on that last. You are also moving forward

1 with the different inside San Francisco upgrades
2 that are also considered important to permit
3 retirement of the plant?

4 MR. GULIASI: Yes, absolutely.

5 PRESIDING MEMBER GEESMAN: Thank you.

6 MR. TRASK: In our analysis, we didn't
7 include that plant because we knew it was going to
8 retire.

9 MR. GULIASI: Oh, okay.

10 MR. TRASK: The rankings were more for
11 the ones where we didn't really know whether they
12 would retire or not.

13 MR. GULIASI: Thank you for that
14 clarification.

15 What we did in reviewing the list is
16 think about the question about whether any of
17 these plants you see here, Table 3-1, are really
18 Southern California plants, Table 3-2 are Northern
19 California plants, if any of those plants would
20 have adverse affects on our transmission system.

21 It is noted in the staff report that the
22 various transmission improvements that we are
23 making will eliminate many of the overloads, the
24 transmission overloads, that the staff identified.

25 We do provide a monthly status report to

1 the Public Utilities Commission on various
2 transmission projects. I believe the staff has
3 that information and consulted with that
4 information. If not, we would certainly be happy
5 to provide it.

6 If the staff would like us to work with
7 them further, to update the power flow models or
8 results of the power flow analysis, we would be
9 happy to do so.

10 I think that pretty much summarizes what
11 I need to say here. We will supplement with a
12 little bit more information some more comments on
13 that question in our written submittal.

14 MR. TRASK: Thanks, Les. Any other
15 comments on our reliability analysis? Greg.

16 MR. BLUE: These are in our written
17 comments on our reliability analysis, but I
18 thought I would just comment on a couple of the
19 items, particularly the --

20 MR. TRASK: Is your mike on, Greg?

21 MR. BLUE: Yeah. The classification of
22 the high and medium risk retirements in the Edison
23 and SD G & E area, Table 3-1, just for everybody,
24 I think you know this, but El Segundo does not
25 have an RMR contract and our DWR contract expires

1 at the end of this year. We recommend moving that
2 up to the high risk, similar to the same criteria
3 you are using for everything else in there.

4 MR. TRASK: Okay.

5 MR. BLUE: As we said earlier, we think
6 that the analysis of retirements in the San Diego
7 area as it relates to the Edison issue should be
8 looked at. It is mentioned briefly.

9 MR. TRASK: Yeah. I would like to draw
10 you out a little bit on that. We know that I
11 believe either one of the San Diego plants could
12 fit this, but the scheme of it is identified as
13 needing voltage support there in order for the
14 output of songs to get up there, which is why it
15 is the subject of a RMR. We assume that as long
16 it is a RMR that it would remain available and
17 there would be no effect on the ability to get the
18 power out of songs, and if and when it was no
19 longer a RMR, something would happen that would
20 make sure that you could get the power out of
21 songs.

22 MR. BLUE: In regards to that, now that
23 you have mentioned that topic, it looks like you
24 guys -- okay, so the last comment I made was in
25 regards to the Edison import limitations.

1 There are also, and it is my
2 understanding, and I'm not a transmission expert,
3 so I'll tell everybody that. It is my
4 understanding since there are import limitations
5 in the San Diego area --

6 MR. TRASK: Correct.

7 MR. BLUE: -- they have a separate, it
8 is not called SCIT, but it is another type of a
9 transmission scheme set up there, and I guess when
10 we were looking on those analysis, I don't know
11 how much analysis was done on that, on the San
12 Diego import limitation. It didn't look like you
13 did anything on that, maybe you did, and I missed
14 it.

15 MR. TRASK: I believe there was some
16 modeling done on congestion relief effects of the
17 San Diego units. I believe the conclusion was
18 that as long as those units are available under
19 RMR, there would be no effect on the limits of the
20 ability to transfer power into San Diego. If they
21 were no longer RMR, usually it would mean that you
22 have a new transmission line in that area plus a
23 new power plant in that area that would supply
24 that need for those two plants.

25 I know in the past when we've talked, I

1 believe you stated that even at that case, Encina
2 might still be needed for reliability --

3 MR. BLUE: Right, which is what you had
4 just said a while ago. We also noted that in the
5 report you said that in the San Diego area, even
6 without any retirements, I don't know if this
7 included the new proposed transmission upgrade and
8 the proposed Otay Mesa plant, but you had said
9 that there was likely to be overloads even without
10 retirements.

11 MR. TRASK: Right. We see that in I
12 think all three of the service territories.

13 MR. BLUE: Okay.

14 MS. JONES: Let me just clarify. You
15 see overloads, but I think you prefaced earlier
16 this morning by saying that they were relatively
17 small transmission fixes to those?

18 MR. TRASK: Correct, and that when you
19 have retirements, it just increases the severity
20 and frequency of those overloads by I think some
21 where around 50 to 75 percent.

22 MR. BLUE: Is that study -- the results
23 of that, is that in here? I didn't see it, I
24 guess that's our point. If you did a study, we
25 would like to see about it. I have not examined

1 the appendixes either. Maybe it is in there and I
2 missed it.

3 MR. TRASK: I don't believe it is in the
4 appendixes, I think perhaps the only thing that
5 ended up in the report was the statement of the
6 conclusion that retirements in San Diego would not
7 change the transfer capability into San Diego
8 area.

9 MR. BLUE: All right. I guess we would
10 recommend shining a little more light on that for
11 the benefit of the general public.

12 MR. TRASK: I did want to emphasize that
13 what staff did was sort of a -- well, it was a
14 preliminary style analysis since we selected these
15 high, medium, low, it was just to examine a range
16 of retirements. What the utilities and the ISO
17 are doing right now goes to a far deeper level
18 with the same 50 units. When that study comes out
19 in November, there will be a lot more definite
20 information out of that.

21 MR. BLUE: On the issue of forced
22 outage, I guess historical data is one thing,
23 estimates of future forced outages raises a more
24 difficult task. I think in my recollection, and I
25 have to go back and look, but I think under the

1 generator maintenance stages that are coming out
2 from the 39XX and all that, I know the PUC is
3 going to be collecting NERC GADS data, and there
4 might be an opportunity for you as a sister agency
5 to sign whatever documents, confidentiality
6 documents, that are needed for you guys to get
7 your hands on that kind of stuff. Again, that is
8 historical. I don't know if that helps you with
9 future.

10 MR. TRASK: I wanted to address that a
11 little bit. Vitaly Lee is not back with us, but
12 commented about how that information is available
13 from the ISO. It was our understanding that the
14 ISO data base does not separate actual forced
15 outage or due to mechanical failure or whatever
16 from the economic dispatch when the generator
17 refuses not to generate. Perhaps that is not
18 true, I've heard both ways. We can work more with
19 the ISO on that.

20 The big missing thing was that we have
21 nothing on the municipal utilities. They don't
22 want --

23 MR. BLUE: I can't help you on that. I
24 think that is the main thing for now. In our
25 comments we gave you some corrections on what you

1 call Long Beach 8 and 9, it's really more than 8
2 and 9 involved at Long Beach. We just gave you
3 some corrections here. I don't need to take up
4 the time with the Committee here, but you can note
5 that.

6 MR. TRASK: Thanks. Very good. Barry.

7 MR. FLYNN: Yes, I'd like to comment
8 (inaudible). We are sort of disappointed in the
9 lack of unit specific data. I think it is a
10 difficult area. Because it is difficult, it means
11 in my mind, the Commission needs to put more
12 attention to it. I believe you have the well
13 deserved reputation of trying to get useful data
14 out in the public.

15 I don't quite understand the market
16 sensitive nature of an estimated forced outage
17 rate historically on a unit, on a unit by unit
18 basis. You know, I struggle with this issue when
19 I am asked by my client, the City and County of
20 San Francisco, to look at the outage rates, the
21 average outage rates, of the units in San
22 Francisco compared to the ISO grid as a whole.

23 We went to the ISO to try to get that
24 information, they said they could not give it to
25 us. We struggled to try to get it. Basically

1 what they did was they pointed us to a website
2 where it does show on an individual unit basis
3 clear up to practically today whether a unit is
4 out of service.

5 My understanding is it does not
6 distinguish between maintenance outages and forced
7 outages and has that major deficiency, but
8 economic outages are not included.

9 It is unit specific, and so the two big
10 draw backs to it is it doesn't distinguish between
11 those two. It is only a four hour snap shot as
12 opposed to knowing when it went out and when it
13 came back in.

14 When I read what was available to you in
15 terms of this report, it seems like it might have
16 been quite useful. So, I guess I am saying it is
17 not very good, but you know, you had a real hard
18 time it seems to come up with anything on a unit
19 specific basis and anything that was recent. I
20 mean at least it is recent to go back beyond the
21 time period when these plants were owned by
22 somebody else in a different regulatory
23 environment and get data and make conclusions from
24 it to me is not probably the best practice.

25 I want to sympathize with the struggle

1 that the staff has been through because I struggle
2 with it myself, but I think that the dedication of
3 the Commission to this area is very important, and
4 I also would caution the Commission to talk about
5 averages. Largely we are talking about plants
6 that are serving a local reliability need and to
7 say that all the aging plants are not worse than
8 all the other kinds of plants, to me sort of
9 misses the boat if there are specific problems in
10 specific local areas.

11 It seems to me it is a plant specific,
12 unit specific analysis that needs to be done. I
13 encourage you to not give up just because it has
14 been a difficult area.

15 PRESIDING MEMBER GEESMAN: I think your
16 points are well taken. My own hunch is that this
17 is likely to require national reliability
18 legislation before any material progress is made
19 in getting data. I think I've got a pretty good
20 understanding as to why we've not been able to get
21 what we've requested, but I don't see anyway to
22 really plug that hole until the national legal
23 framework changes, until NERC or whoever the
24 reliability organization is imposes some mandatory
25 requirements. Then I would hope it would be

1 applied to the municipal utilities as well as
2 other owners and operators.

3 MR. TRASK: We were able to take sort
4 of snap shots of plant unit specific reliability
5 during the very hot months of the last few years.
6 When we look at the time when those plants were
7 called upon, we do have CEMS database pretty good
8 information that shows that they were available
9 when they were called upon. It tells you
10 absolutely nothing about the other ten or eleven
11 months of the year. At least when these units are
12 absolutely needed, what we can gather, they seem
13 to have a comparable forced outage rate with the
14 newer plants during those times.

15 MR. FLYNN: Is the information that you
16 get CEMS database on a unit by unit specific basis
17 and can that be shared with stakeholders?

18 MR. TRASK: I believe so, we can check
19 on that. Barry, I would appreciate it if you
20 could e-mail me the address for that, the website
21 you mentioned.

22 MR. FLYNN: Sure.

23 MR. MOBASHERI: This is Fred Mobasher.
24 Earlier regarding Chapter 2 and 3. In Chapter 2
25 you are defining the benefits from these aging

1 units. One of the most important benefits of
2 these units is contingency. When there is a
3 contingency, these units can produce more power.

4 In fact, if you look at the figure 2-1,
5 it shows that the during the energy crisis, the
6 energy production from these units went to about
7 25 percent of the total requirement, where as they
8 are usually producing about 10 to 15 percent.

9 The reason why during the energy crisis
10 these units were producing, it wasn't because of
11 the energy crisis, it was mostly because of the
12 hydro condition in the Northwest, dry conditions
13 in the Northwest require more production from the
14 generation in California.

15 These units produce more power when
16 there is dry condition, either in California or
17 the Northwest. They also produce more when there
18 are some large units out like the nuclear plant,
19 like with Song was out for several months, one of
20 the songs unit because of the fire.

21 They are also producing more power when
22 the transmission is not available because of the
23 fire or whatever is, so I would strongly suggest
24 that kind of benefit should be also mentioned in
25 this second chapter as a benefit of these old

1 units.

2 Now the question is how do you get these
3 benefits if they are going to retire. Really
4 there is also another category that you maybe
5 should add to this category of active and retire
6 and that is called a stand by.

7 These units can also be put in the cold
8 stand by, and by cold stand by then you can recall
9 them back when there is a contingency. The owners
10 of these units will not do that for free probably
11 because it doesn't make sense for them to put
12 these in contingency mode and then put them in
13 stand by, but this was the procedure that was used
14 by Edison and PG & E in the old days. They would
15 put these units called stand by and called them
16 back when they were needed.

17 To create that then maybe they have to
18 be some kind of an option that utilities can pay
19 these option fees and get these capacities in the
20 cold standby rather than retirement, and then with
21 the provision that they can call them back in
22 three months notice or six months notice depending
23 on the option. That way then the generations,
24 rather than disappear completely, then they will
25 be in the cold standby and be called back when

1 there is need for them.

2 MS. JONES: I think you answered part of
3 my question at the very end. What is the
4 availability from cold stand by? How long does it
5 take to get them back into operation?

6 MR. MOBASHERI: It depends on what kind
7 of -- three to six months maybe. Some of them
8 three months. When you have hydro condition like
9 what I am talking about you know well in advance,
10 so you can call them back. When you have a
11 transmission that is going to be out and you know
12 it for repair, you can call them back. Even a
13 nuclear power plant if it is going to go out for
14 six to eight months, you can call them three
15 months in advance notice.

16 Depending on the option fee, you can
17 even shorten that, but that is something that has
18 to be looked into.

19 MR. TRASK: This is essentially what
20 happened with Etiwanda this year, isn't it?

21 MR. CARLSON: By the way, I appreciate,
22 I think, everything that Fred Mobasher just said.
23 I'm trying to think if there was anything I
24 disagreed with. I don't think there is, but just
25 to clarify, we could have probably brought

1 Etiwanda Unit 3 back quicker, but we did not have
2 the expectation going into the moth ball it would
3 be coming back that soon. We were able to get 4
4 back because it didn't require some major
5 maintenance to come back. It is not a three to
6 six month range, it was something like six weeks
7 to come back for Etiwanda Unit 4 and it is gong to
8 take about 12 weeks or so to get Unit 3 after some
9 major maintenance. So, what Fred is saying is
10 right on point, and we would fully support that
11 kind of concept and look forward to responding to
12 that type of request for offering from the IOU's.

13 MR. TRASK: Trent, could you or Roy
14 expand on the differences between cold stand by
15 and mothball?

16 MR. CRAFT: Yeah, Roy Craft,
17 representing Reliant Energy. Cold standby you
18 have the entire staff of the plant ready to go.
19 In a mothball situation, at least our definition,
20 the plant would be de-staffed, and that is one of
21 the major considerations in returning the unit to
22 service is the qualified staff. Also, in a cold
23 standby -- I mean in these units are normally in
24 cold stand by a considerable portion of the year,
25 through the winter months when we are not called

1 upon to run. Mothball they are actually disabled,
2 fluids drained, desiccation unit put onto the
3 outside or the boiler, things like that, that
4 would require some period of time to remove and
5 restore it to service.

6 PRESIDING MEMBER GEESMAN: Would you
7 characterize the experience with Etiwanda over the
8 course of the last year as a bonifide mothballing,
9 or was it not quite that far because you had to
10 conduct the auction again one year after the first
11 auction?

12 MR. CRAFT: In the case of Etiwanda, we
13 were in the process of full mothball. The
14 equipment had been placed, it had not been cut in
15 yet because we got an early enough indication that
16 the ISO was interested in the return of the unit.

17 PRESIDING MEMBER GEESMAN: What was the
18 situation with respect to the staffing?

19 MR. CRAFT: The staffing -- I'm trying
20 to give you a percentage, we kept roughly 18 of 36
21 staff, about 50 percent in another mode, just the
22 core expertise of the station was kept, the rest
23 were laid off.

24 PRESIDING MEMBER GEESMAN: Had that gone
25 all the way to the second auction --

1 MR. CRAFT: Without being picked up?

2 PRESIDING MEMBER GEESMAN: -- without
3 being picked up?

4 MR. CRAFT: We would have terminated the
5 employment of the rest of the people.

6 PRESIDING MEMBER GEESMAN: Thank you.

7 MR. CRAFT: You are welcome.

8 MR. BLUE: This is Greg Blue again. I
9 also want to endorse the comments that have been
10 made regarding the option payment, the optionality
11 of these sites, also the optionality value also
12 allows some period until we get through the market
13 redesigns that we are talking about, through all
14 the regulatory proceedings that we are getting to.

15 The other issue is that you can't
16 mothball a plant forever that we are talking
17 about. At some point, the equipment if you drain
18 the fluids, the equipment starts to cease
19 functioning. It starts rusting, especially the
20 ones on the coast. So, the idea of a cold stand
21 by with an option payment to keep staff around is
22 something that we would certainly -- that would be
23 another option for us. We would support that.

24 MR. LAWHN: I would like to support what
25 he just said. Even if a deep mothball situation,

1 the cost of maintaining the plant in that
2 condition are not zero. They are pretty
3 extensive.

4 MR. TRASK: I believe we have at least
5 one caller. Is there anybody on the telephone who
6 would like to make a comment?

7 (No response.)

8 MR. TRASK: I guess not. Any other
9 comments on Chapter 3, the reliability analysis.

10 MR. CARLSON: Just one quick one. To
11 key up the SCIT analysis, we are not prepared to
12 give any specific comments today, and we would
13 prefer not to do any studies to prove up any point
14 in our written comments on September 7, but we
15 would like to encourage the CEC staff to follow up
16 with CAL ISO staff because just our feel is that
17 the numbers are understated, and some of the
18 assumptions are not complete to reflect the impact
19 of potential retirements.

20 For example, there is no mention of
21 inertia or those types of analyses. I believe the
22 ISO is in a position to give some estimates
23 without doing a lot of detailed study to confirm
24 whether these numbers are about on point,
25 overstated, or what we believe to be understated.

1 If there is to be a supplement issue to this
2 report, we would hope that would be reflected in
3 that report or supplement.

4 MS. THOMAS: The ISO has provided some
5 comments, we are not going to endorse the scit
6 analysis, there is not enough information there
7 for us. I don't think we exactly agree with the
8 results. Perhaps we could invite you to come in
9 and have a meeting. I don't know to what extent
10 we can help, though, because I think this analysis
11 to do it right, is extremely time consuming.

12 I would be more than happy to set up a
13 meeting to work with some of our staff on that.

14 MR. TRASK: The current grid assessment,
15 is that looking at scit as well the effects of
16 retirement on scit as well as the reliability?

17 MS. THOMAS: I don't know. Is there any
18 of the IOU's here that know that answer or anyone
19 else who is participating in the transmission
20 process? I'll find out then.

21 MR. BLUE: I do have a question. I read
22 where the ISO was working with the investor-owned
23 utilities on this reliability analysis about
24 retirements at the plants. I note that we haven't
25 been called by the ISO to participate in this. I

1 don't know how we get our input into what they are
2 doing. Nobody has talked to us, we haven't been
3 invited, I know maybe public meetings. I knew it
4 was going on, but we haven't been reached out -- I
5 don't know if you are seeking information from the
6 generators themselves or not.

7 MS. THOMAS: I believe the generators
8 are open and invited to the transmission process,
9 but if you would like to give me your business
10 card, I'll give it to that group and make sure you
11 get invited to those meetings.

12 MR. BLUE: I am pretty sure that none of
13 our people have received any calls about that, and
14 so just as we are inputting on this process, we
15 would like to input on this process as well. Are
16 there generators actually showing up and your
17 meetings, besides utilities?

18 MR. TRASK: I think it may be a little
19 early, Greg. I think right now the utilities are
20 conducting their sensitivity studies that will be
21 input to the ISO and then the ISO --

22 MS. THOMAS: It --

23 MR. BLUE: They asked the utilities?
24 Aren't they asking any of the generators about
25 what their opinions are? I haven't gotten any

1 calls from the utilities either.

2 MR. GULIASI: I don't know, Greg.

3 MS. THOMAS: There is a whole process
4 where it is opened -- well, it is not open to the
5 public, but open to utilities --

6 MR. TRASK: (Indiscernible.)

7 MS. THOMAS: Yes, there is a whole
8 stakeholder group and they have several meetings
9 and take input from anybody. I think there is, I
10 don't know where on their website, probably under
11 transmission section, there's a link to get to the
12 right person.

13 MR. TRASK: I put that link in my
14 presentation.

15 MS. THOMAS: Okay.

16 MR. FLYNN: Let me try to contribute a
17 little bit since I follow all these proceedings.
18 Each utility does their five plus five or ten year
19 plan, a grid assessment every year. As part of
20 the study plan, at least in PG & E's case, they
21 have decided to look at potential retirements.
22 Those meetings are held about four times a year,
23 they are open to anyone who wants to go, but there
24 is no debate there as to whether or not much of a
25 debate as to whether their assumptions were right.

1 I mean it is really -- what's talked
2 about is if these plants are not there, these
3 overloads exist. It is not debate on whether that
4 is a good assumption or not. In fact, the
5 utilities in -- you know, they say we don't know,
6 but here is a "what if", what if Pittsburg 7 and
7 Pittsburg are not available and Portrero 3, and
8 what if all of the plants are down. What
9 overloads do we see, that is the type of analysis
10 that's going on in PG & E's case.

11 The ISO on an annual basis does their
12 grid wide assessment. In some ways it tends to
13 check what the utilities have done, but it has a
14 higher voltage emphasis. They are looking at the
15 same kind of things.

16 You know, I don't think if a generator
17 came in and said we don't think you should assume
18 my plant is going to retire, the utility would
19 say, well, you are probably right, we just ran the
20 studies. So, it is not a debate like that. It is
21 a technical analysis that says if these plants
22 retire, these facilities would be overloaded. So
23 far, at least in PG & E's case, they haven't to
24 the public proposed what they would do if the
25 plants did retire. They would just say these are

1 the overloads. I mean they probably will say in
2 order to relieve these orders, we would have to do
3 this. So far, that is not publicly available, at
4 least at this point in time.

5 MR. BLUE: The current process that is
6 undergoing at the ISO, what is the kind of time
7 frame of when your analysis is supposed to be
8 complete? Is this like an annual?

9 MS. THOMAS: Yeah, the results will be
10 out I believe it is the end of October or
11 beginning of November, so they will be out soon at
12 the end of this year, though.

13 MR. BLUE: Is this year any different
14 than any other year?

15 MS. THOMAS: Yes.

16 MR. BLUE: Because of the emphasis on
17 retirements?

18 MS. THOMAS: Right.

19 MR. BLUE: Okay.

20 MS. THOMAS: They previously didn't
21 consider retirements or projected retirements.
22 This year they are considering those.

23 PRESIDING MEMBER GEESMAN: I want to
24 come back to the SCIT analysis. Trent, did I
25 understand you to say that it is your belief that

1 the staff analysis understates scit related intra-
2 zonal congestion?

3 MR. CARLSON: SCIT related -- let me say
4 it this way. We believe this would lead someone
5 to believe that it is not much of a problem if the
6 capacity associated with the plants identified as
7 high and medium risk for retirement were
8 unavailable. Just based on my slightly aged
9 experience or vintaged experience, it just doesn't
10 feel right to me that with that amount of MW's
11 available, if the equivalent amount of spinning
12 inertia and how that relates to the scit nomogram.
13 It just appears to be understated. It makes it
14 sound like there is really nothing to worry about
15 in terms of Southern California imports.

16 There is other assumptions about how you
17 make up the difference if these plants were to be
18 retired where the power would come from. I think
19 a little more explanation on that would be
20 helpful.

21 PRESIDING MEMBER GEESMAN: This is the
22 reference to 1,100 MW of additional import from
23 Los Angeles?

24 MR. CARLSON: Yes, and again, my
25 information may be dated, but when I was in

1 California, if somebody said on peak it really
2 won't matter if you are missing a couple thousand
3 MW's of these aged power plants because we will
4 just call LADWP and have them send us another
5 1,100. It is counter to my experience.

6 MR. TRASK: I don't believe that is what
7 staff concluded that there wouldn't be a problem.
8 Our analysis of SCIT was rather limited. We can
9 only go in the time we had available, we could
10 only go to N-1. Certainly N-2 would almost make a
11 huge difference. We did conclude that retirements
12 could definitely limit the import transfer
13 capability into scit. I believe just totally off
14 memory here, it is about 400 MW's with the high
15 risk units out.

16 Then we also did find quite a bit of
17 overloading. The only thing is at N-1, we saw
18 that the fixes were relatively cheap and easy.
19 Obviously, they would still have to be done, and
20 that could take "X" amount of time, availability
21 of components and so forth.

22 MR. CARLSON: By the way, I don't mean
23 to be overly critical of what you've done. I
24 appreciate you taking a look at the SCIT issue,
25 and I generally agree with your finding, that the

1 amount of Southern California imports are reduced.

2 I'm just saying that it looks like you
3 have understated the extent to which I would have
4 expected them to be reduced.

5 Second, it is not clear to me how you
6 are making up the difference to restore the power
7 balance in the southern zone. From my experience,
8 the CAL ISO was not splitting ancillary service
9 requirement, SP 15 versus NP 15, so now I would
10 expect that going forward situation to be even
11 more severe than what my own experience was a few
12 years back.

13 It would be enough for us to have the
14 report reflect that the studies were not anything
15 like Mary Jo's suggestion that a year's worth of
16 study. It is just the back of the envelope,
17 what's the change in inertia, what's the change in
18 power demand balance, to what extent does zone
19 procurement effect that demand balance in the
20 southern zone. Is it a little bit of a problem,
21 or is this really something that we really should
22 pay close attention to?

23 MR. TRASK: Right. We are doing some
24 additional analysis in that area. I briefly
25 mentioned that during the presentation. We are

1 trying to do a break down of supply and demand
2 available in the different regions. We did also
3 in a separate part of the analysis, not in Chapter
4 3 conclude that retirements in the Los Angeles
5 Basin in addition to limiting transfer capability
6 would create that reserve margin problems and that
7 you could very easily have problems meeting load
8 in those conditions with few retirements.

9 PRESIDING MEMBER GEESMAN: Mary Jo, you
10 thought the numbers did not look right. Can I get
11 you to be more specific, or would you prefer to
12 stay at that qualitative assessment?

13 MS. THOMAS: I provided some comments
14 from the engineer who took a quick look at it. It
15 was more some questions, did you include this or
16 that. Again, I think they need to have some more
17 information for them to really evaluate it.
18 Probably the best thing to do is get the CEC
19 together with the engineers who work on that and
20 go step by step and maybe they can give them some
21 suggestions on how to narrow this down.

22 MR. TRASK: I would totally agree. I
23 think the best value we have gotten out of this
24 study so far is meeting one on one with the people
25 who really deal with this stuff every day.

1 COMMISSIONER BOYD: We accept that
2 offer?

3 PRESIDING MEMBER GEESMAN: Matt, do you
4 want to keep pushing us through this?

5 MR. TRASK: Sure. Any more comments in
6 Chapter 3? Let's move on to the future of aging
7 plant operations.

8 Here we tried to characterize what are
9 the likely future products that are going to be
10 needed by the IOU's. We concluded that 5,000 MW's
11 of peaking and load following capacity were needed
12 as soon as next year, another 5,000 by the end of
13 the decade. The question was whether or not the
14 aging units would be able to participate in that
15 request for offers.

16 Any comments on Chapter 4?

17 MR. BLUE: I have a specific question on
18 that specific topic. What was -- I'm reading out
19 of the report that says, "As load growth continues
20 and DWR contracts continue to expire, this need
21 will increase." Then you've got the number. What
22 was the load growth based on, the growth load we
23 have seen this year, what load growth are you
24 estimating in your forecast of this topic?

25 MR. TRASK: That is a good question. I

1 don't believe we were basing it on the load growth
2 that we have actually seen this year because this
3 analysis was done before the summer growth hit.

4 Al or Angela, do you have any?

5 (Inaudible.)

6 MR. TRASK: You folks probably couldn't
7 hear that. She said that load growth was three to
8 four percent a year, which is a rather standard
9 prediction for load growth.

10 MR. BLUE: Based on what we have seen
11 this year, you wouldn't adjust that at all, just
12 purely a forecasting --

13 MR. TRASK: Well, this is constantly
14 trying to hitting a moving target. Staff did
15 their 2004 summer assessment after this analysis,
16 and we saw some surprising growth. If we were
17 revisit and do this over again, I imagine we would
18 revise those numbers.

19 PRESIDING MEMBER GEESMAN: This is a
20 particular concern of mine, Greg. We update our
21 demand forecasts biennially. You know, it takes
22 long enough to turn the ocean liner in terms of
23 the data that needs to be brought on board to
24 define that cycle as a two-year cycle. Our demand
25 office makes some rough adjustments to it, and we

1 have published either two or three such
2 adjustments this year that attempt to reflect
3 experience through I think April. I would not
4 attach much precision to that, that is a tool that
5 was really designed for a ten-year horizon, and as
6 you try to bring the refraction up to an earlier
7 period of time, it is not capable of a very
8 precise application. I think we need to have a
9 certain humility about any of our short term load
10 projections and assess whether it is best to err
11 on the high side or better to err on the low side.

12 In the area this year, the extent to
13 which you can attribute the higher growth to
14 economic conditions, and it is not clear to what
15 extent we can attribute that to economic
16 conditions, but to the extent you can, our demand
17 office typically is of the belief that that is a
18 borrowing or acceleration of future growth, and as
19 a consequence an adjustment will be made in an out
20 year to bring the projected growth down a bit to
21 account for economic growth occurring more rapidly
22 than had been anticipated.

23 I think people attach more precision to
24 some of these load projections. In fact, the
25 methodology will bear out, it is a consequence it

1 is probably a lot better for policy makers to
2 focus on both the uncertainty of the projections
3 we made and a risk assessment as to whether you
4 would rather err on the high side or on the low
5 side.

6 MR. BLUE: I agree, and I'm not trying
7 to assign anything to these numbers. This is just
8 a magnitude issue, and you are showing the
9 magnitude is pretty great. Another one or two
10 percent, and you have a great thing to do, so I
11 just had some questions. I'm trying to seek some
12 clarification from that piece.

13 MR. TRASK: Looking further down the
14 questions. We talked about some of the processes
15 that are in place, the proceedings under way that
16 would affect the future of aging plant operations.
17 We have questions down here as to whether we
18 accurately characterize the PUC's resource
19 adequacy proceeding and also whether there are
20 other options for insuring local and zone
21 reliability. Comments?

22 MR. BLUE: I will continue on. I think
23 the discussion of resource adequacy proceeding at
24 the PUC is accurate. Again, I'll sound like a
25 broken record, but we would like to see the Energy

1 Commission involved in that proceeding in a way of
2 supporting the resource adequacy requirements,
3 acceleration, supporting deliverability standards.
4 I don't know if you, the CEC normally participates
5 in other agency proceedings, but now days with the
6 Energy Action Plan and the three agencies working
7 together, it was my understanding that there was
8 going to be more of that happening so that
9 everybody is going to be on the same page. If so,
10 I would again that would be my recommendation to
11 include in this report which hopefully will move
12 forward with some action.

13 PRESIDING MEMBER GEESMAN: Let me give
14 you kind of a good news/bad news response to that.
15 The good news is we are participating pretty
16 intensely in that process under a so called
17 collaborative staff arrangement. Under that
18 process, we do not appear as a formal party. Our
19 staff subject to the direction of Commissioner
20 Boyd and I, actually under the IEP process, is
21 participating with the PUC staff in developing
22 white papers and assisting with the drafting of
23 some of the decisions.

24 The bad news is it is a pretty invisible
25 process, there is not a very high profile attached

1 to it. We don't write a lot of letters to the
2 governor or anything. I will say Commissioner
3 Peevey and I jointly issued a statement at the
4 pre-hearing conference in response to the
5 governor's April 28 letter and strongly trying to
6 direct the process to subject to a majority voted
7 his commission to accelerate the resource adequacy
8 requirement to 2006.

9 COMMISSIONER BOYD: You don't know how
10 I've been biting my tongue and not making nasty
11 quips about I hadn't heard of Commissioner
12 Peevey's letter until you reference it. I was
13 glad he read our IEPR and took it to heart,
14 apparently, but humans are humans, and turf is
15 turf, and we still struggle. We just hope the
16 door doesn't close in our face sometime.

17 MR. GULIASI: Following on the theme
18 about turf is turf. I guess I was struck by the
19 last paragraph of the chapter pertaining to
20 municipal utilities. I really don't mean my
21 comments here to be gratuitous, but the paragraph
22 does note that the staff was not able to obtain
23 information from the municipal utilities, and to
24 the extent that this whole issue of resource
25 adequacy is really a state-wide issue.

1 I would encourage you to be persistent
2 to work with the municipal utilities to try to
3 bring them into play here and understand their
4 situation just as the light is being shined on my
5 company and my sister investor-owned utilities,
6 let's find a little light on municipal utilities.

7 I'm not saying at this moment that they
8 should have identical or similar adequacy
9 requirements imposed on them, but I am saying that
10 to the extent that this is a state-wide issue, a
11 state-wide problem that would require state-wide
12 solutions, it would be incumbent upon everybody to
13 work together on this problem.

14 I encourage you to be persistent and try
15 to get the information you need so you can address
16 this problem at a state-wide level.

17 MR. BLUE: On the question 4(c), asking
18 what are the other options available to insure
19 local and zonal reliability, I guess I would, of
20 course, in the short run short term contracts and
21 long run, of course, repowering. I think based on
22 what I heard today, the option of the cold stand
23 by is another option that should perhaps be
24 included in this little piece right here. I
25 didn't put it in my comments, but this would be a

1 good place for that type of option to fit in.

2 MR. TRASK: Greg, would that cold stand
3 by concept fit in what a capacity market as well?

4 MR. BLUE: Fit in with the capacity
5 market?

6 MR. TRASK: In other words, could you
7 buy and sell capacity in cold stand by?

8 MR. BLUE: No, but the way my -- the way
9 I would do it, I would think that if somebody is
10 buying an option, that is basically what a utility
11 would be buying an option on a plant. You are
12 committed to whoever is buying the option. I
13 don't know if you could go out in the market then
14 and market. I haven't thought a lot about it from
15 that point of view. I have to think about that a
16 little bit.

17 To me, the option payment is enough to
18 keep you available to sell to whoever is buying
19 your option. That would be like another form of a
20 contract. I'll think about it some more.

21 MR. FLYNN: I had one suggestion in this
22 area. I think it was the year before last I
23 helped the City and County of San Francisco
24 provide a ten MW demand, be it in their LARS
25 process, and I think they are contemplating doing

1 something similar next year.

2 That process is a very opaque process.

3 I believe that load curtailment per say has a lot
4 different characteristics than generator. My
5 experience is the load, you know, it is not as
6 difficult to have it available, but it is more
7 difficult to call on it. So, it has a different
8 economic characteristic in that it could be very
9 competitive in terms of asking for a smaller
10 payment than the RMR generator asks for. When you
11 look at the economic consequence and when you call
12 on it, you know, you might be asking more than
13 what it costs an RMR generator to run.

14 I'm not sure -- but that is the utility
15 systems. You don't want to sell nothing but
16 baseload. You don't want to install nothing but
17 peaking. So, it seems to me like there is no
18 peaking resources for RMR services from the
19 standpoint of it could be the last thing to be
20 called on, the ISO didn't pay much for it. When it
21 calls it, it is going to pay a lot more than when
22 it called on the RMR generators, and I have no
23 confidence in whether or not that was taken into
24 account when the economics of that demand bid in
25 to the LARS process was looked at.

1 I think maybe the Energy Commission
2 could help from a generic standpoint. Think about
3 how load curtailment can participate in providing
4 local reliability services in an economical
5 fashion.

6 PRESIDING MEMBER GEESMAN: Barry, if I'm
7 not mistaken, San Diego Gas and Electric's long
8 term procurement or perhaps it was their interim
9 procurement had a 30 MW demand bid approved by the
10 PUC. In my knowledge, that is the largest that
11 any of the California utilities have actually
12 embraced, and I can't say I know how it works. I
13 believe it was part of San Diego interim
14 procurement that was approved at the same time
15 Otay Mesa and Palomar were approved by the PUC.
16 Do you happen to know if that was based on a local
17 reliability need or --

18 MR. FLYNN: I don't think that it was,
19 but I'm not certain.

20 PRESIDING MEMBER GEESMAN: I'll take a
21 look at it, thank you.

22 MR. TRASK: Our final question is this
23 chapter was whether or not we had accurately
24 characterized the natural gas use of the aging
25 plant sector and the effect of that use on the

1 natural gas market. It was a pretty short section
2 of this study.

3 We frankly expected it to be a larger
4 section, but our analysis showed that essentially
5 there would be very little effect on the natural
6 gas market from either retirements or continued
7 reliance on the aging units. Any comment on that?

8 MS. JONES: I guess I would like to note
9 a concern. It appears that the staff kept the
10 production from the aging facilities at 20 percent
11 capacity factor, and I guess the time when you
12 would be most concerned about natural gas
13 consumption would be in a low hydro condition
14 where you are relying heavily on natural gas, and
15 you have natural gas infrastructure constraints.

16 So, I think you may have understated
17 some what natural gas impacts could be.

18 MR. TRASK: Right. It is worth further
19 consideration.

20 MR. WEISENMULLER: Matt, I just had a
21 couple of follow up questions for Greg.
22 (Inaudible.)

23 COMMISSIONER BOYD: Can we get closer to
24 that mike please.

25 MR. WEISENMULLER: Sure. I have two

1 questions for you. One of them is easy, and one
2 of them is harder. So, I'll start with the easy
3 one. You have talked in your comments about
4 capacity markets and you filed 55 pages here. If
5 I recall correctly, your company filed an ex parte
6 with the PUC on its vision for capacity markets.
7 I was just curious as to why you didn't file it in
8 this docket?

9 MR. BLUE: Consider it done.

10 MR. WEISENMULLER: That I think would
11 help the record here. The other question was,
12 earlier on, one of the things that comes out from
13 the report is that these existing units are very
14 good to provide ancillary services and for
15 cycling. In fact, much better than new combined
16 cycles. At the same time, as you mentioned a lot
17 of interest in repowering these units. I think
18 all of the proposals I've seen to date basically
19 flip them to combine cycles. So, the question in
20 part is how do we maintain that sort of
21 operational advantage and get a more efficient and
22 cleaner configuration there.

23 MR. BLUE: I don't have the complete
24 answer for you, number one, but I will give it my
25 best shot.

1 Some of these facilities and we feel
2 that for example, our Encina unit down in
3 Carlsbad, they are properly maintained. Our
4 operators tell us they can run for another ten to
5 fifteen years without any problem. As somebody
6 identified earlier, you said that some of these
7 plants can be run indefinitely. I believe it
8 depends on the situation. Some of our plants are
9 just too old. Long Beach, for example. Our
10 oldest turbin there is a 1924 installation. They
11 move up, and then the next one is in the 40's and
12 in the 50's, so some of the equipment just has to
13 be replaced. If the value of that existing site
14 is critical to all the things we have been talking
15 about, then a repowering needs to happen.

16 I hope some of the other generators will
17 speak to this, but at some point, the equipment
18 physically becomes unsafe for the worker. You
19 can't run it, you can't get the benefits from it,
20 therefore, if you want to enjoy the benefits of
21 the current infrastructure at that site, then
22 repowering would be warranted at that place, at
23 that site.

24 I don't know if that.

25 MR. TRASK: Greg, let me ask you about

1 that. It sounds like you are saying that there
2 are some components that whether economically or
3 engineering wise, you couldn't replace and that
4 you would rather go to a repowering. Would that
5 be like the entire turbin? In other words, we
6 have seen some of the units replace their turbin
7 blades, put in different re-heaters and so forth
8 and boilers.

9 MR. BLUE: Again, it all depends on if
10 there is a contract. If somebody wants to pay you
11 to keep those features available -- although if
12 you structure a contract such that you want to
13 keep that feature available, yeah. I mean we will
14 do those types of things. We haven't seen those
15 yet. We don't see them. Right now we don't see
16 them this year, we might see them next year. We
17 don't know.

18 MR. SMITH: Greg, the confusion I have
19 is when we talk about repowering today, we have
20 been talking about replacing it with combined
21 cycle. I think what Bob was getting to is can a
22 repowering result in a steam boiler that is more
23 efficient and cleaner. It has all the attributes,
24 the load following attributes and so on that are
25 more efficiently done than can be had with a

1 combined cycle. So, is that --

2 MR. BLUE: The short answer is yes. It
3 can be done. Once again, you've got to get the
4 right incentives out there.

5 MR. CRAFT: If I might comment. To
6 answer the one gentleman's question about can a
7 combined cycle meet the needs? It depends. There
8 are trade offs. If you are going for the brand
9 new ultra efficient advance gas cycle gas turbines,
10 no. My company has constructed several of those
11 across the United States in the last few years,
12 and the turn down ratio on those units is very
13 poor. Emissions goes through the roof, efficiency
14 goes through the roof.

15 On the other hand, yes, a conventional
16 steam turbine boiler combination could be built and
17 has been built that will meet all the emission
18 requirements and high efficiencies. You can build
19 a combined cycle plant that doesn't use the super
20 high temperature firing that they do today and to
21 get the very low heat rates. But you are going to
22 end up with a combined cycle plant that is if you
23 want the flexibility, you trade off efficiency.
24 You are going to end up with something around the
25 10,000 BTU per KW heat rates that are

1 representative of the aging plants. You can get
2 the efficiency, or you can get the flexibility,
3 but right now technologically, the two are kind of
4 hugely exclusive.

5 MR. SMITH: Did I understand you
6 correctly, is it the high firing temperatures that
7 are in the ultra-efficient gas turbines that are a
8 limiting factor in terms of the flexibility of
9 those machines?

10 MR. CRAFT: In some cases, yes. In
11 order for the machine -- in a gas turbine unit,
12 about two-thirds of the energy goes into the
13 compression cycle to compress the air to feed into
14 the combustion process. To get that kind of
15 efficiency, the tolerances in the compressor
16 section are extremely tight, and they are all
17 designed around operating at the sweet spot of the
18 energy curve which it is designed for 100 percent
19 of its name plate. Anything off of that, the
20 efficiency goes way down. Your energy going into
21 compression goes up above the two-thirds point,
22 and the efficiency just goes down. The emissions
23 just also sky rocket, NOX, CO, CO 2, everything
24 goes through the roof.

25 The machine manufacturers will tell you

1 that they can have a machine that is a great turn
2 down ration, which it is, but when you integrate
3 that machine into a system, an entire generating
4 unit, then you have to have a SCR on the back end
5 of that thing that it is so large as to be non-
6 economic. Anything below like 60 percent turn
7 down ratio, it is just not economic. Whereas a
8 steam plant, much more amiable to those kinds of
9 changes to turn downs and design.

10 MR. BLUE: Just a quick follow up, I
11 think where that leads you is if you do see a
12 fleet of base load plants coming in, then in order
13 to regain some of the same characteristics, you
14 are going to have to get a fleet of peaking
15 plants. We don't see a lot of those coming in
16 yet, except on the emergency basis of the crisis.

17 If you have the peaking plants
18 available, and the base loads, then the operator
19 can do what he needs to do with the plants to
20 follow the load.

21 MR. TRASK: Any other comments on that
22 Chapter 4? Moving on, then to Chapter 5. Here we
23 talked about alternatives to the aging boiling
24 units, and we actually had quite a bit of
25 discussion on this already. We identify a range

1 of things that could replace a retired unit and
2 specified that the mix of those technologies
3 employed would likely be very different, depending
4 on the unit. We did not unit specific analysis in
5 that area. It is certainly something that could
6 be done.

7 Any comments on the alternatives to
8 aging units?

9 MR. BLUE: I didn't quite understand
10 question 5(c). We didn't have a comment, but I
11 also really understand what the point of this
12 question was.

13 MR. TRASK: Right. One of the things
14 that we said would likely replace any retired unit
15 would be increased generation from existing power
16 plants. We did not differentiate those between
17 IOU and municipal power plants or just general
18 ability to transfer power from one system to
19 another.

20 PRESIDING MEMBER GEESMAN: That sounds
21 like the 1,100 MW from Los Angeles.

22 MR. TRASK: Correct.

23 MR. BLUE: Okay. We have no comment on
24 that question.

25 MR. TRASK: We did actually discuss this

1 quite a bit earlier in the more general sections.

2 With that, I would like to move on to
3 Chapter 6, the environmental chapter. Tim, Rick,
4 and Matt maybe you could join us too. We'll start
5 off with air quality. The air quality section.
6 We did have a couple of general questions there,
7 and then we have specific questions for the aging
8 plant operators and one from Mirant. I'll just
9 throw it open to general comments right now on
10 this chapter.

11 MR. HEMIG: Okay, I'd like to say a
12 couple of things. Tim Hemig with West Coast Power.

13 A lot of things I would say in response
14 to these questions is very similar to what we
15 raised earlier in our presentation. We also have
16 very specific detailed suggestions and language
17 changes that we provide in our written comments
18 which I won't read verbatim, but anyway I will get
19 the general points out here.

20 In the air quality section, we think it
21 is good accurate information in there with a
22 couple of short falls in general that I brought up
23 earlier. Really it is focused on the evaluation
24 of replacing the retired units and how that might
25 occur and adding some additional language in the

1 white paper that discusses more similarly sized
2 combined cycle and how that might replace retired
3 aging power plants, and then doing a short term
4 emission comparison to demonstrate the net air
5 quality improvements that might create at the
6 facility.

7 We've made some comments along those
8 lines, and you will see them in our statements. I
9 think making a short emission comparison is most
10 appropriate, and like I raised earlier, because
11 that is what affects air quality. Air quality
12 standards are concentration standards that are one
13 hour or eight hour standards.

14 I think when you are looking at it,
15 that's the best comparison. Another point I think
16 that the white paper needs to have some expansion
17 on is a discussion about emission reduction
18 credits. Basically, the emission reduction credit
19 program creates some net air quality benefits by
20 itself, and especially when you do a repowering
21 project, there are a couple of opportunities where
22 the ERC Program, in a repowering scenario, will
23 create some benefits. I think those should be
24 flushed out in the white paper, specifically even
25 when you shut a unit down and you hope to bank

1 some emission credits, there is some discounting
2 that occurs there. Those are basically discounts
3 that goes to net air quality benefit. We provided
4 some specific details in here where those
5 discounts can be as high as 50 percent in some
6 districts.

7 MR. TRASK: Tim, can I interrupt you
8 there?

9 MR. HEMIG: Sure.

10 MR. TRASK: From my understanding is
11 that the amount of discount is basically based on
12 the location of the new facility compared to the
13 old facility.

14 MR. HEMIG: No, I am actually talking
15 about pure shut down emission reduction credits.
16 When you shut down a power plant and actually
17 don't have a project to replace it and you just
18 want to bank the credits and you didn't have a lot
19 of operating hours, operating hours themselves can
20 result to 50 to 100 percent reduction depending on
21 how many hours you had.

22 Some other districts they do it
23 differently, but those reductions can be
24 substantial just by the number of hours that you
25 operated. Then they also discount you assuming

1 you have employed best available control
2 technology. Those discounts can be as high as 90
3 percent.

4 I think my point is that there should be
5 some discussion in the white paper about when you
6 do a repowering project, that you are going to net
7 air quality benefits associated with those kinds
8 of discount programs, in the ERC side of things as
9 well as when you go to apply those off sets
10 towards your new units, there is additional
11 discounts, like a 20 percent surplus retirement,
12 which all goes to the net air quality benefit in
13 the program. It reduces on a permanent basis all
14 those emissions from the inventory.

15 You offset those emissions based on the
16 maximum worse case permitted emission levels,
17 regardless of if you ever run it at that level.
18 That is how you offset it, so there's a
19 substantial discount. I think those should be
20 added into the white paper.

21 Further provided specific criteria in
22 our written comments about how you might go about
23 expanding on the comparison of air quality
24 benefits associated with the repowering project.
25 Those criteria would be using similarly-sized

1 combustion units in your comparison, not
2 substantially larger facility replacing a small
3 facility. Also focusing those comparisons on the
4 short term emission standards and rates like
5 pounds per million BTU, pounds per MW hour. I
6 kind of explored those things earlier, so I won't
7 really say anything more about that.

8 This is basically answering the
9 questions (a) and probably (b) as well in your
10 list there.

11 MR. TRASK: Right. Thank you. Other
12 comments. On (c) we've asked specifically for
13 those plants without SCR and very specifically for
14 Mirant Portrero 3 and Pittsburg 7, Contra Costa 6.

15 MR. OSTERHOLT: I'm Mark Osterholt with
16 Mirant. We will be providing written comments,
17 but I would like to address 6(d). Regarding
18 Portrero 3, we have planned to install SCR or
19 Portrero 3. That project right now, the building
20 permit has been appealed on that project, so we
21 are uncertain as to actually when that will be
22 installed.

23 We are working very closely with the ISO
24 to work on managing Portrero 3's operating in
25 2005, as well as getting the building permits.

1 The other units that were mentioned here
2 are Contra Costa 6 and Pittsburg 7. Those two
3 units, neither of those units have SCR's. At this
4 point, we do not plan to install SCR's. If we did
5 have a contract, longer term contract, that would
6 essentially assure recovery of the capital
7 invested, then we would move forward with that.
8 At this time, there are no plans to install SCR's
9 in those two units.

10 MR. LAWHN: Yes, I'm Bob Lawhn with
11 Reliant. I am the Environmental Manager of the
12 West Region. We concur with the comments made so
13 far. Our written comments, I think, are going to
14 elaborate a little bit on the number, the 10 to 15
15 percent number that's in the report. We are not
16 questioning that number, but I think it refers to
17 the plant's running in typical load following
18 mode.

19 I think we are going to emphasize that
20 all the individual plants, the different
21 technologies, are following load differently. They
22 are designed to follow load differently. As a
23 result, the emissions are different, and we
24 believe in some cases, you know, a new combined
25 cycle could actually produce more area emissions

1 and have more of an air quality impact than the
2 existing boilers. That is one of the things I
3 think we will add to some of the comments made so
4 far.

5 MR. TRASK: That is one thing that we
6 found in our CEMS data investigation that indeed
7 some new combined cycle plants are suitably higher
8 in emission rates than some of the aging units.

9 MR. GULIASI: Les Guliassi with PG & E.
10 I want to first talk a little bit about some
11 issues regarding a particulate matter, regulation,
12 and then talk a little bit about the environmental
13 requirements at both Humboldt Bay and Hunter's
14 Point.

15 Again, I'll have some written remarks to
16 draw your attention to some of the discussion
17 about particulate matter. I'm going to try to
18 provide those comments as a way of being helpful,
19 not necessarily to draw attention to a deficiency
20 in the report.

21 In our earlier data response, I think it
22 was back in June, we also talked a little bit
23 about particulate matter regulations and we noted
24 that there are current or pending best available
25 retro-fit control technology rules that affect

1 Humboldt Bay, but there are as we noted new
2 regulations being developed based on Senate Bill
3 656 that was passed last year.

4 That bill would require that particulate
5 matter, include NOX and SO 2 be minimized from
6 areas that are not currently in attainment with
7 their quality standards. The North Coast Basin
8 where Humboldt Bay Power Plant is located is not
9 in attainment of those particulate matter
10 standards. While the Air Resources Board is in
11 the process of finalizing regulations, we don't
12 have any particular schedule or costs associated
13 with what the compliance requirements may be.

14 Again, I didn't want to raise an issue
15 that necessarily required further elaboration or
16 analysis. I thought you might just want to be
17 aware of that point.

18 With respect to Humboldt Bay, again,
19 Humboldt Bay units 1 and 2 will not be retro-
20 fitted with SCR because that plant is in
21 attainment, is in a district that is attainment
22 for NOX. I think that the paper accurately
23 identifies that point. We are not sure what the
24 impact of future emission requirements might be on
25 Humboldt Bay with respect to a more stringent

1 cooling restriction. But we are currently
2 evaluation those impacts, and we can talk to you
3 about our analysis as you kind of keep your eye on
4 what regulations do come out both in terms of air
5 as well as water regulation as they affect
6 Humboldt Bay. As of now, we have no plans to
7 retire Humboldt Bay.

8 Hunters Point, everybody is aware that
9 we have an agreement with the City and County of
10 San Francisco that we will shut down the plant
11 once the transmission line Jefferson Martin is
12 completing and all the associated transmission
13 upgrades.

14 That plant is facing or would face more
15 stringent emissions requirements. We are working
16 diligently to insure that we don't have to make
17 costly investments in that plant, given our
18 scheduled retirement of that unit of that plant.

19 We will provide a little bit more
20 information about that in the written comments.

21 MR. TRASK: Thank you, Les. Any other
22 comments on the air quality section of Chapter 6?

23 (No response.)

24 MR. TRASK: Then I would like to move on
25 to the Biology Section, which was focused

1 primarily on the once through cooling systems used
2 at I believe 15 out of the 22 plants that we
3 looked at.

4 I wanted to briefly talk about Tim's
5 comments during the first part of our study. The
6 statement we said where impacts might be more than
7 one spot. Part of that comes out of I guess you
8 could say our experience in environmental law in
9 general, where you have significant controversy
10 that generally would kick up your analysis to a
11 more stringent level.

12 It is absolutely true what Tim said
13 about the Regional Water Quality Control Boards.
14 The ones that we consulted with didn't generally
15 see a problem in this area. However, we did also
16 consult with many other resource agencies, Coastal
17 Commission, the Bay Conservation, Building
18 Commission, the Department of Fish and Game, U.S.
19 Fish and Wildlife Service, and the National Marine
20 and Fishery Service, and they were uniformed in
21 saying that they felt that the studies that had
22 been done to date were not rigorous enough, were
23 not capturing the potential for impact. They felt
24 that perhaps there were a lot more impacts than
25 people thought. They even proposed that this may

1 be an area that you should look at rather than
2 shutting down commercial fisheries as a way to
3 help the overall eco system.

4 Personally, looking at all the
5 information available, looking at the stance of
6 these parties, that is where I said there was an
7 information gap. I do not see enough information
8 to back the conclusions of either side of that
9 debate. That is where we concluded that there was
10 this gap. With that, I will throw it open to
11 comments.

12 MR. HEMIG: Tim Hemig here with West
13 Coast Power. I think I recognize what you are
14 saying, and I think it might be better, then, to
15 put maybe some less conclusionary statements in
16 there, then, and put a little more information on
17 what the water boards have determined and what
18 they have recognized and findings and permits.

19 Probably the best example and comparison
20 that I have found to date is the South Bay permit
21 that is currently a tentative order. I think it is
22 up for adoption next month, so it is a very
23 current proceeding and a very very good example of
24 data adequacy from a 20 year old study and of a
25 current study.

1 A good comparison of the findings, the
2 results are that the findings are nearly
3 identical, regardless of methodology or time frame
4 when the study was conducted, and that the impacts
5 again were documented as very insignificant on the
6 order of I think the range was -- this is the
7 impact to adult fish populations in San Diego Bay.
8 The low end of the range was .003 percent, and the
9 high end of the range was .03 percent impact to
10 adult fish based on maximum flow of the facility
11 at full potential to circulate cooling water.

12 I think it is important to recognize
13 that in the white paper, leaving the uncertainties
14 and the discussion about some of the uncertainties
15 is appropriate, but at least shoring up the side
16 that there is some findings and factual
17 information out there that implies that the data
18 may not be as inadequate or as uncertain as the
19 way it is portrayed currently in the report.

20 I also had a couple of more comments,
21 actually question (e) about once through cooling.
22 I've said this before and I think it was in our
23 original set of written comments that there should
24 be a discussion about the benefits of once through
25 cooling as well as when you do a comparison of

1 once through cooling compared to wet, dry, or
2 hybrid cooling systems, I found that there is a
3 number of benefits that you might get out of once
4 through system, including the low cost and most
5 efficient cooling method that you can use is the
6 sea water cooling, or once through cooling.

7 Energy penalties associated with the wet
8 and dry cooling, those require more fuel to
9 produce the same number of MW's and also would
10 also result in more air emissions associated with
11 different alternative cooling system compared to
12 once through.

13 I've got a number of them. I won't go
14 through them in detail, but I think those should
15 be evaluated in our written comments, and there
16 should be a balance approach to the report that
17 also has some of the benefits included in it.

18 I think I had a couple of more things.
19 I had some specific requests in the report for
20 deletions and changes to the report. It goes back
21 to the part of the Regional Water Board's
22 jurisdiction and recognizing what they have said
23 is factual and where there is a discrepancies as
24 to what the water boards have determined. I
25 believe it is appropriate to take some of those

1 statements out of the white paper if they are
2 contrary to what water boards have found.

3 Those would be where there's a finding
4 and NPDES permit that says that data is adequate
5 or data has determined or has resulted in a
6 determination that there is no significant impact.
7 Those should be included in there.

8 Then I have one specific area, it is
9 about technology on cooling systems and how well
10 technology works to reduce impingement and
11 entrainment. I think we should include a
12 paragraph about what kind of technologies are
13 already in operation on these aging power plants.

14 There is a section that there is a very
15 short section about that, but I think it should be
16 expanded to include things about the velocity caps
17 on some of the intake structures and how well
18 those work to reduce impingement. There are
19 results from installation of velocity caps at El
20 Segundo, for example, that resulted in 95 percent
21 reduction in impingement. I think it is important
22 to recognize that they do have technologies that
23 are very effective in reducing impingement
24 currently installed and maybe put some description
25 about how effective those are.

1 Those continued to be recognized by the
2 US EPA as best technology available, even in the
3 Phase 2 regulation.

4 MR. TRASK: I believe some of that
5 information, not all of it, is available in the
6 Appendix A of the report.

7 Rick, did you want to respond? This is
8 Rick York of our biology staff.

9 MR. YORK: Rick York, Bio Staff. We,
10 too are familiar with the preliminary results of
11 the South Bay Project 316-B study. What we have
12 found that each of these projects when they do
13 their study, do have different impacts. The
14 results of the studies, as Tim knows for Morro Bay
15 and Moss Landing, determine that the impacts were
16 quite significant.

17 In that case, the data was determined to
18 be old and of little value, and that's why a study
19 was done. The results for those projects, which
20 have been before the Commission are quite
21 different than what they were down in South Bay.

22 That completes, I think, a little bit
23 more of the discussion that there are different
24 impacts at different facilities, and people need
25 to recognize that.

1 The other, we are too, like Tim,
2 learning what the new regs are going to require,
3 and the learning curve is pretty steep there. We
4 do recognize that some of the old technologies do
5 still work. Velocity cap is one of them. For
6 some of those projects that do have a good design,
7 obviously we get credit for that when they are up
8 for their renewal of their NPDES permit, so if we
9 do need to elaborate on that in this report, we
10 will.

11 What were some of the other points
12 that -- one thing about cumulative impacts, Tim
13 mentioned earlier that he felt we shouldn't be
14 discussing that. I respectfully disagree. One
15 thing that hasn't been done but has been
16 continually been mentioned to people is that there
17 hasn't been any cumulative affects for the South
18 Bay Power Plants, and that is the issue that these
19 other agencies we consulted, they all would
20 conclude with that statement, that by the way, we
21 need to look at them individually through the
22 NPDES permit process or power plant licensing.

23 We also must not forget that
24 cumulatively, they could be having a significant
25 effect on among places like Santa Monica Bay. So,

1 we would like to continue to be able to have that
2 comment in our report.

3 There are two things that are going on
4 at the Commission that might be of interest to
5 people. For the Huntington Beach Project, their
6 316-B study is almost complete. We are about to
7 do a what we consider the first cumulative affects
8 analysis, kind of the back of the envelope type
9 analysis. This is the first time one will be done
10 for coastal power plants in Southern California.
11 That will be taking place in early October.

12 We do know that the public interest
13 energy research program at the Energy Commission
14 is also going to be looking into working with Moss
15 Landing Marine Lab to begin an overall cumulative
16 affects analysis for the coastal power plants in
17 California. So, we do feel this cumulative
18 effects issue is very important, and we will
19 continue to bring this issue forward at every
20 opportunity that we can.

21 Bob?

22 MR. LAWHN: I'm Bob Lawhn with Reliant.
23 I think I pretty much agree with a lot of the
24 comments that have been made. I would say the
25 report I think adequately captures the state of

1 the 316 rules, and the complexity and magnitude
2 going forward, I don't think the full impact of
3 the regs will play out during the study period of
4 this report.

5 However, I think the bottom line is that
6 this point, knowing what we know and reading the
7 rules, it is not a retirement decision at this
8 point. It is not something we can point to and
9 say would lead to a retirement decision.

10 There may be information gaps, there may
11 be cumulative effects that need to be looked at.
12 I expect you go to Texas and the Gulf Coast or up
13 the East Coast and survey all the different
14 agencies and they would say they have information
15 gaps, and there are effects that need to be
16 analyzed.

17 It is important and could impact the
18 cost of compliance, but at this point, I think
19 maybe the bottom line is that it is not clear that
20 this is a retirement decision. Maybe that is
21 where it needs to kind of stay at this point, or
22 be noted that it is there, but it is not something
23 that is automatically going to lead to retirement.
24 It definitely is a sort of one more straw in the
25 bag, I guess, for the old game list not getting

1 paid to walk -- thanks.

2 PRESIDING MEMBER GEESMAN: Let me jump
3 in here. I'd say that this is a staff white
4 paper. I think there is considerable value in
5 getting a good slice of the staff's perspective on
6 this issue.

7 The next step is going to be the
8 committee coming up with a committee draft, which
9 will be much more focused on policy
10 recommendations than on going back through the
11 empirical information developed in the staff white
12 paper.

13 On this particular topic, the bottom
14 line I drew from the staff white paper is that
15 this is unlikely to influence retirement decisions
16 during our study period. As a consequence, I am
17 inclined to give it some what minimized treatment
18 in our policy recommendations.

19 I'm particularly reluctant to get
20 involved in a generic discussion of a subject
21 which is intensely litigated in a couple of our
22 siting cases. I think we are much better served
23 as a commission to try and refrain from that
24 generic policy discussion and allow those cases to
25 be decided on case by case specifics.

1 Those of you looking for more from the
2 Committee on this topic are likely to be
3 disappointed. I think we are going to largely try
4 to benefit from what has been written, take into
5 account the comments that each of the parties
6 make, but not feel compelled to address policy
7 recommendations in this particular area.

8 MR. LAWHN: I think that's wise because
9 there's a legal challenge right now pending to put
10 a stay on the 316 rule, so I think it is an
11 appropriate proposition to take.

12 MR. HEMIG: West Coast Power supports
13 that as well, and I think my point is just the
14 white paper -- we are not writing the white paper,
15 so the best we can do is throw our comments in at
16 this time. I think there is another side and
17 pieces of information that you should recognize.
18 We do support that it is not carried out in the
19 policy part.

20 PRESIDING MEMBER GEESMAN: Yup. Matt,
21 where are we?

22 MR. TRASK: I think that might conclude
23 our discussion of biology, unless there are any
24 additional comments. If not, we can move into the
25 last section which is Land Use, Socioeconomics,

1 and Environmental Justice.

2 We did hear early that we had some gaps
3 in our socioeconomic analysis, especially land
4 use. There may be some issues that we missed, and
5 we would certainly welcome comments. I believe we
6 had a fairly thorough discussion of land use
7 issues at the plants under study, but certainly we
8 were not able to get a lot of information about
9 property taxes, franchise fees, and so forth.
10 Part of that was working out confidentiality and
11 things like that.

12 It is something that we could certainly
13 step up a little bit more analysis on that area.
14 I'll just leave it open for comment.

15 MR. BLUE: Greg Blue of the West Coast
16 Power, the land use issue, of course, desalination
17 plants and the synergies with the coastal power
18 plants. There is really only a brief mention of
19 this in the report, and I think it was worthy of
20 at least two brief mentions.

21 I don't know if you guys can do any
22 policy on this, but it is certainly needs to be
23 recognized in a higher fashion. I do have a
24 particular question about a paragraph on page 100
25 and why it was included, the one about The

1 Surfrider Foundation and the fact they don't like
2 desal plants, and what is the purpose of this
3 statement being in this report.

4 I'll give you another one if you want an
5 opposing view on this.

6 MR. TRASK: Sure. We wanted to capture
7 where we could community input, I guess you could
8 say, to the plants.

9 MR. BLUE: You said that in the previous
10 paragraph before that, that there has been
11 expressed public concerns. What is the purpose of
12 singling out this one participant in a proceeding
13 and community hearings on desal, and that you have
14 their last statement which seems some could say a
15 negative statement? I would say. They say it is
16 added incentive to keep a potentially dated and
17 dirty plant open.

18 I am trying to understand what's the
19 point of having this in here, I guess.

20 MS. ALLEN: I can respond to that. This
21 is Eileen Allen of the Land Use and Traffic staff.
22 Your point is well taken. That discussion could
23 be more balanced, and we will expand it. I put
24 that item in there in part because it was in the
25 context of desalination, and Surfrider has been

1 active in that discussion.

2 Also, he had this statement that these
3 were all "dirty plants" so it was in the desal
4 context, but at the same time he was referring to
5 kind of a broad pollution related statement.
6 There was community sentiment that was related to
7 desal, but also it was related to these older
8 plants.

9 MR. BLUE: As I say, this is not going
10 to change the report, it is just when I read it,
11 well, where did the other half.

12 MS. ALLEN: That is a reasonable
13 comment, so I will work put in some other
14 material. I need to warn you, though, you may
15 face seeing some discussion of the growth
16 inducement potential that desal can have for the
17 communities in that area too.

18 MR. BLUE: We are not a desal developer,
19 so I will just make that point.

20 MS. ALLEN: Right.

21 MR. BLUE: You can say whatever you want
22 about it. I am just saying at the end of the day,
23 most of the desal plants in California are going
24 to need to be sited at coastal power plants.

25 MS. ALLEN: Discussion of the synergy

1 between the power plant and the desal is
2 reasonable.

3 MR. TRASK: Let me kind of zero in on
4 that, Greg. I don't know if we want to spend a
5 lot of time in this area, but my feeling is about
6 desalination is that there's been some what of a
7 drawing back of siting these for sea water, using
8 sea water. Now more developers are focusing
9 rakish water, rakish brown water, and there seems
10 to be quite a bit of opportunity for that here in
11 California.

12 We also had one large facility sort of
13 fall through the sponsor backing out. It was my
14 sense that perhaps there is a little bit less
15 motivation right now for siting sea water type
16 desalination.

17 MR. BLUE: I would refer you back to the
18 presentation that Lon House made, last week. Were
19 you at that?

20 MR. TRASK: No, but I heard it.

21 MR. BLUE: It was pretty dramatic about
22 the water situation in the West. Just like we
23 need every single power plant in California, we
24 are going to need every single desal plant in
25 California that we can do eventually. I did not

1 resubmit his presentation in this docket, but I
2 would be glad to do so if that helps.

3 PRESIDING MEMBER GEESMAN: Actually, I
4 think that it is going to take up a larger role in
5 our 2005 report. I think when we issue the
6 scoping memo for that, it will be more clear. I
7 envision us working quite closely with the State
8 Department of Water Resources and with ACWA, the
9 Association of California Water Agencies and the
10 Coastal Commission in reviewing this. We didn't
11 have enough in the way of resources in this cycle
12 to devote what I consider to be adequate attention
13 to this question. We do intend to pick it up in
14 the '05.

15 MR. BLUE: While I have the mike, I will
16 just continue on with a few other questions. We
17 did provide some information in our written
18 comments that you didn't have prior to this
19 document regarding our property tax we paid,
20 regarding the information, we still have some
21 holes in our information, but we are pulling
22 together the information for the utility user's
23 tax and the franchise fees. They are basically
24 one of the same, it just depends on where you are
25 at.

1 El Segundo is a utility user's tax and
2 it is called franchise fee. I will note that at
3 El Segundo the utility user's tax revenue makes up
4 about 10 percent of the City's budget. It is a
5 huge number. We get the City folks calling us
6 every week wanting to know how come we are not
7 running because that is revenue they are not
8 getting. It is huge issue for us on how we
9 manager that. It is a huge issue to the City, and
10 we really want to make sure that hopefully you
11 could have some discussion. I don't know if you
12 will have time to do it, but maybe it would be
13 worth having some discussions with some of these
14 cities themselves.

15 Don't take my word for it, go talk to
16 them and see what kind of impact some of these
17 plants have in the local community. Not only the
18 utility user's tax, but the property tax, but
19 there's also potential redevelopment fees
20 located -- some of these plants as you noted are
21 in redevelopment zones. Redevelopment does occur,
22 they stand to benefit from that financially. I
23 think there is a larger impact to the community
24 than has been recognized in this report so far. I
25 just hope we can look at that.

1 That is one of the reasons I had
2 recommended this be a separate chapter even. It
3 is just so different than the environmental
4 issues. It deserves its own separate chapter,
5 even if it is a short chapter for now. Maybe it
6 is something that will rolls into next year. I
7 don't know, you may not have time for the rest of
8 this year to get all the information you need, but
9 it is a dramatic issue for a lot of these local
10 communities, so I would hope you would get their
11 input on this.

12 MR. TRASK: We did consult with at least
13 the planning departments of the jurisdictions, but
14 yes it was difficult to engage all the
15 municipalities on this issue.

16 MS. ALLEN: Particularly Carlsbad. I
17 tried to get in touch with them a number of times.
18 Now that we've got the specific comment from you.
19 It is something that we can try to allot staff
20 time to in '05.

21 MR. BLUE: Carlsbad city budget is a lot
22 larger than El Segundo. It just depends on the
23 size of the city budget. Carlsbad budget is a lot
24 larger, so we are not on a percentage basis, not
25 as large. However, they are still revenues that

1 go to the cities.

2 MR. FLYNN: I guess I would like to
3 comment on that. I'm sure what Greg says is true
4 that -- I mean I would assume that is true, there
5 are probably very many communities that are very
6 dependent upon the revenues, the property tax
7 revenues from these plants. There are also some
8 communities like San Francisco that would dearly
9 love to give up their property tax revenues for
10 Hunters Point and Portrero.

11 You've got both extremes. While I am on
12 the subject, I thought the write up that was done
13 was technically accurate. I'm not sure it
14 portrays the emotional fervor of the community
15 groups in the City of San Francisco anyway.

16 MS. ALLEN: Well --

17 MR. TRASK: That's probably fairly well
18 known among this commission.

19 MS. ALLEN: -- I think the staff and the
20 commissioners are speaking from personal
21 experience, yes. If you have suggestions, we'd be
22 happy to review them. There was an attempt to
23 present a balanced, reasonably factual portrayal.
24 I've heard the emotional statements, and I have
25 been affected by them. Balance was the attempt

1 there.

2 PRESIDING MEMBER GEESMAN: I would throw
3 out here, again, in the interest of conservation
4 and resources, some of this stuff is handled best
5 on a case by case basis. Commissioner Boyd and I
6 are both assigned to the San Francisco Generation
7 Project.

8 Commissioner Boyd is an assigned
9 commissioner on the El Segundo Project, and we
10 have heard from the City of El Segundo in our
11 petroleum infrastructure proceedings. They've
12 chosen to comment on the power plant during those
13 proceedings. I don't think we have heard from
14 Carlsbad, so there in may lie an exception.

15 On those where there are active siting
16 cases, I think probably the most efficient way for
17 us to get that input would be in the context of
18 those individual proceedings.

19 COMMISSIONER BOYD: Yes, I would say
20 that we should have in house quite a bit of
21 information since Morro Bay, that was an issue, El
22 Segundo, it is an issue, etc. etc. It probably
23 does deserve a little more discussion which
24 shouldn't be hard to do. I would almost agree
25 that it should be in a separate section. It is

1 not environment. It is tangled up in the whole
2 issue of the structure, the finance of local
3 government in California, and I am afraid you
4 might even have to mention Prop 13 in such a
5 discussion.

6 There are various kinds of pressures.
7 Some cities are highly dependent, and thus you get
8 a lot of pressure when you have a power plant
9 siting case, and other cities there are other
10 social issues that over ride as indicated. We
11 should at least acknowledge that we are cognizant
12 of it and aware of these force fields that exist
13 at the local level.

14 MR. BLUE: I think why it is good to
15 acknowledge them is, you know, we have to think
16 back what is the purpose of this report. The
17 purpose of this aging power plant study, in my
18 opinion is it is going to feed into the '04 update
19 or the '03 update I guess. This is the '04 update
20 of the '03 report, which will go to the governor.
21 It will go to the legislature which will hopefully
22 the basis for new state policy.

23 We just need to present them with all
24 the information we can so that they can make good
25 policy on a going forward basis.

1 MR. BOYD: I agree. Lots of people's
2 role is just to pass on to the ultimate decision
3 makers all the facts in the context that it exists
4 in the arena in which they operate. In this case,
5 it is within the State of California. This is an
6 issue. We could go to the extreme on the
7 environmental area, for instance, and site all the
8 people who have stated on the record multiple
9 places they don't want anything on the coast of
10 California, and they want those existing power
11 plants picked up and taken away.

12 There is a range of points of view on
13 many of these issues that are going to be tough to
14 represent.

15 MR. TRASK: Very good. Any further
16 comments on Chapter 6.

17 MS. ALLEN: I had a couple of questions
18 for Greg Blue. Greg, you made a general statement
19 in your written comments that you would like to
20 see the land use and socioeconomics discussion
21 expanded.

22 You focused on expanding the desal
23 discussion, and then more complete data set on
24 socioeconomic contributions, and then
25 acknowledging the contribution of these plants to

1 the local economy. Is there anything else in the
2 land use area?

3 Initially when I read that, I was
4 wondering whether you were looking for kind of a
5 real estate economics discussion.

6 MR. BLUE: No.

7 MS. ALLEN: We aren't set up to do that.

8 MR. BLUE: No, not looking for real
9 estate economic discussion --

10 MS. ALLEN: Okay, fine.

11 MR. BLUE: -- I'm looking for
12 discussions, I would characterize them as
13 favorable contributions to the socio economics of
14 a certain area, such as for one example the lagoon
15 that we have down at Carlsbad, all the activity
16 that we have on that, that we --

17 MS. ALLEN: Multiple recreational --

18 MR. BLUE: -- let the YMCA use the inner
19 lagoon for a \$1.00 a year. We have the sea bass
20 hatchery for \$1.00 a year. There is a ACWA farm,
21 we charge them \$1.00 a year. If they were to go
22 out in the real estate market and try to lease
23 property like that today, it would be in the
24 hundreds of thousands of dollars a year. Those
25 types of things which are not dollar

1 contributions, but they are land use sort of
2 contribution to the economies of the local
3 communities is, we think, very important.

4 When you are looking at the big picture
5 of a certain plant or not -- I'm sure there are
6 other plants probably have other attributes as
7 well that are what I consider positive attributes.
8 Those are the types of things I was talking about.

9 MS. ALLEN: All right. Thank you for
10 that clarification. When you mentioned the Long
11 Beach plant, are you aware of any plans for
12 repowering that facility?

13 MR. BLUE: No.

14 MS. ALLEN: There is a lot of interest
15 in the Port of Long Beach property, some for other
16 energy uses, petroleum infrastructure is a topic
17 we are dealing with. There is also a proposal for
18 a L & G facility in there. So, are you getting
19 any inquiries from the Port of Long Beach or
20 private businesses using the port?

21 MR. BLUE: Yeah.

22 MS. ALLEN: You are. Okay, so the
23 future, as far as what will be done with that side
24 is in flux.

25 MR. BLUE: I would note that it is

1 listed as a high risk for retirement, and that is
2 accurate unless something changes. I don't see
3 anything changing right now, but it is still good
4 though. I think I can tell you we are in the
5 process of making our final decision on that
6 shortly. We did already notify the ISO in a
7 letter which we sent a letter to the PUC, we
8 didn't send it out to the whole group of people
9 that there are -- I can't remember which -- we
10 retired Unit 8. It was down for a maintenance
11 issue, and we did retire it. We removed that unit
12 from the participating generator agreement. We
13 derated the gas turbines out of there, two MW's a
14 piece. So, we have already done some derating at
15 the facility already, and that has been properly
16 noticed, and we are not hiding the ball as claimed
17 in one of the hearings that the ISO says they are
18 not telling us until afterwards.

19 We let several people know that is
20 happening. We will be making a decision on Long
21 Beach shortly, very shortly. I'll just go back
22 and say that it is accurate to describe that as a
23 high risk of retirement.

24 MS. ALLEN: Would it be reasonable to
25 say in the final report that it is a possibility

1 that site may be converted to a non-energy use?

2 MR. BLUE: No. There are other things
3 you can use that site for, you can put three or
4 four small turbins back in the back. It could be
5 a peaking site. There are other uses. I am
6 saying that facility that is currently sitting
7 there right now is a highly likely for retirement.

8 PRESIDING MEMBER GEESMAN: I believe
9 that is consistent with earlier announcements your
10 company has made.

11 MR. BLUE: Correct.

12 MR. WEISENMULLER: Greg, I have a follow
13 up question on that. In a way, it may apply to
14 some of your combustion turbins in San Diego that
15 I think you retired, but obviously when you bought
16 that plant it had been used by Edison over the
17 years or by San Diego.

18 My recollection of the divesture
19 agreements were that the utilities were
20 responsible when these plants are retired for
21 decommission the sites for whatever they had done.
22 Somehow you are responsible for decommissioning
23 any additional environmental impact in your period
24 of operation.

25 If you were to shut down say a Long

1 Beach, exactly what will happen on a
2 decommissioning front?

3 MR. BLUE: I can honestly say I don't
4 have that answer. Tim, do you have one?

5 MR. HEMIG: You are referring to an
6 indemnification, that is a sale agreement that
7 talks about existing soil contamination. I don't
8 think it is really relevant to this proceeding,
9 but the answer is I think at decommissioning that
10 the owner, us, we are responsible for those costs.
11 I think that is about the only answer I can
12 provide on that.

13 MR. WEISENMULLER: There will be --
14 there was some sort of compensation on Edison in
15 that situation.

16 MR. HEMIG: They were responsible for
17 the existing soil contamination at the point where
18 we bought it. I believe there is a portion that
19 says at decommissioning those become our
20 responsibility. I'm not totally sure of that, but
21 I think that is the way it is written.

22 MR. TRASK: Having worked on
23 divestitures for the PUC, I believe that is
24 accurate.

25 MR. LAWHN: In the case of Reliant, the

1 recollection I have is in what I would call it is
2 like a 15 year call back provision. It was
3 something like within the first 15 years if you
4 find contamination and you can demonstrate that it
5 belonged to Edison in our case, we could bring
6 Edison back. They would be responsible for coming
7 back in and bearing the cost of that.

8 That is probably after we probably spend
9 15 years in litigation over the whole mess, but
10 nevertheless, that is what I recall from our sale.
11 That was nothing to do with decommissioning.

12 MR. TRASK: Any further comments?

13 MR. GULIASI: Les Guliasi. I just want
14 to reiterate that we will provide some information
15 about property tax payments, franchise fee
16 payments, charitable contributions, and so forth
17 to the extent that we can get all of the
18 information for all of the years you have
19 requested.

20 In the general sense that there will be
21 socio and economic impacts to the closure of
22 Hunters Point is well known. Certainly the
23 benefits are well known. In fact, I am hoping
24 that maybe the City of San Francisco would like to
25 stop getting our franchise fee payments for

1 property tax payments for that plant starting now.

2 Clearly shutting down that plant will
3 have some impacts. There are workers who work in
4 that plant. It has been our policy that to the
5 extent that workers are displaced, they have an
6 opportunity to seek employment in other parts of
7 the company. I think we currently employ about
8 60 people at Hunters Point.

9 We have other facilities in the City and
10 County of San Francisco, that really dwarf the
11 facility of that one power plant. We continue to
12 make franchise fee payments and so forth to the
13 City. They are not quite dependent on revenues
14 from that power plant as I noted. As many others
15 have noted, the social benefits, the environmental
16 benefits of the plant closure far exceed the loss
17 of revenues and so forth.

18 With respect to Humboldt Bay, we have no
19 plans to close down that plant. We employ about
20 50 people up there on the fossil side. There are
21 others who have responsibility for the nuclear
22 side of that plant. Obviously, the plant is
23 needed for local generation and the nuclear unit
24 is safe store, so we are there, it's there, we are
25 not leaving.

1 MR. BLUE: Just some closing comments.

2 I just wanted to say at least for the
3 commissioners up here that I really wanted to
4 applaud the staff. This is a really good white
5 paper for the amount of time that they had, which
6 wasn't that long. It is a fairly accurate, fairly
7 thorough document that I think will guide the
8 committee in their committee report. I think you
9 be able to develop some policy recommendations
10 from this report. I think it has been very
11 illuminating on some of these issues. There was
12 some general false assumptions out there that have
13 now the light has been shown on them.

14 In my opinion, the staff has operated
15 with the utmost integrity in this process. It is
16 overall a really good document. We are looking
17 forward to seeing the committee report next.
18 Thank you.

19 COMMISSIONER BOYD: Thank you,
20 appreciate that. I know we appreciate that, and I
21 am sure the staff really appreciates that because
22 I know they thought they were handed a greased pig
23 in the beginning of this thing. It took them a
24 long time to tackle it at all.

25 PRESIDING MEMBER GEESMAN: It is going

1 to be a crowded fall. I want to thank you all for
2 your participation and your assistance throughout
3 this process.

4 MR. TRASK: We just got a comment in by
5 e-mail from Steve Moore of the San Diego County
6 Air Pollution Control District. It is fairly
7 short, and I could just read it.

8 PRESIDING MEMBER GEESMAN: If you would.

9 MR. TRASK: "Aging power plants in San
10 Diego as defined in this report have had dramatic
11 reductions in NOX emissions in the last four
12 years. However for comparison of the contribution
13 these plants NOX emissions to overall NOX
14 emissions or comparison of other pollutant
15 emission rates, it is somewhat misleading to use
16 annual average emissions. As pointed out
17 elsewhere in the report, aging plants tend to
18 operate much more frequently in the summer, which
19 is also the peak ozone season. The more
20 representative comparison might be using peak
21 daily NOX emissions from these plants in the
22 summer time compared to daily summer time NOX
23 emissions from other sources. In addition, when
24 comparing the emissions of these plants to non-
25 aging load following plants, for example, as in

1 figure 6-6, it is not clear if existing older
2 peaking turbines have been included in the non-
3 aging plants category. These peaking turbines, at
4 least in San Diego, are non-aging only in the
5 sense that they are not included in this study.
6 In fact, they are more than 30 years old and have
7 very high NOX emission rates on the order of 1.5
8 lbs. per NOX of MW hour or more. These plants
9 should be broken out of any comparison of other
10 load following plants in the reports aging plants
11 sector since they cannot replace most of the aging
12 plant operations because of air permit limitations
13 on their operating time and tend to provide an
14 unrealistically high average NOX emission rates
15 for the non-aging plants."

16 I'll just briefly respond to that, that
17 yes, the non-aging plant sector does include
18 these, all combustion turbines in the state no
19 matter how old they are.

20 With that --

21 PRESIDING MEMBER GEESMAN: If he is
22 still listening, I thank him for submitting that.

23 We will release our committee draft
24 September 15 or thereabouts, and we would
25 anticipate, then, I think five days of hearings

1 around the state on that draft document before
2 releasing a final set of recommendations October
3 20, which the full commission will consider at its
4 November 3 business meeting.

5 Again, I think you all for participating
6 and look forward to seeing more of you in the
7 fall.

8 (Whereupon, at 3:25 p.m., the workshop
9 was adjourned.)

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CERTIFICATE OF REPORTER

I, PETER PETTY, an Electronic Reporter,
do hereby certify that I am a disinterested person
herein; that I recorded the foregoing California
Energy Commission Workshop; that it was thereafter
transcribed into typewriting.

I further certify that I am not of
counsel or attorney for any of the parties to said
workshop, nor in any way interested in outcome of
said workshop.

IN WITNESS WHEREOF, I have hereunto set
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